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No. 3

HOWARD UNIVERSITY RECORD

HOWARD UNIVERSITY SCHOOL OF MEDICINE



WASHINGTON, D. C.

1867-1912

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SCHOOL OF MEDICINE.

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HOWARD UNIVERSITY

Forty-fifth Annual Announcement

OF THE

SCHOOL OF MEDICINE

INCLUDING

The Medical, Dental and Pharmaceutic Colleges

Fifth and W Streets Northwest

WASHINGTON, D. C.

1912-1913

Alumni desiring to receive the Announcement regularly
should send name and address to the Secretary

Calendar.

September 19, 20, 21, 1912.

Thursday to Saturday. Examination for advanced standing.

September 23.

Monday. Examination for matriculation.

September 25.

Wednesday. Opening of the session; matriculation.

October 8.

Tuesday. Last day of registration.

November 27 to December 1, inclusive.

Wednesday to Sunday. Thanksgiving holidays.

December 24, 1912, to January 2, 1913, inclusive.

Tuesday to Thursday. Christmas holidays.

February 22.

Saturday. Holiday, Washington's Birthday.

March 20 to 25, inclusive.

Thursday to Tuesday. Easter holidays.

May 12, 1913.

Monday. Examinations begin.

June 4, 1913.

Wednesday. Commencement day.

SPECIAL NOTICES.

I. SECTION I. "EVERY COLLEGE HOLDING MEMBERSHIP IN THIS ASSOCIATION SHALL, ON AND AFTER JANUARY 1, 1912, REQUIRE FOR MATRICULATION A COMPLETED OR UNCONDITIONED MEDICAL STUDENT'S CERTIFICATE, TO BE GRANTED BY A STATE MEDICAL EXAMINING AND LICENSING BOARD, OR A BOARD EMPOWERED BY STATUTE TO GRANT SUCH CERTIFICATE."—Article III, Section I. CONSTITUTION OF THE ASSOCIATION OF AMERICAN MEDICAL COLLEGES.

Prospective medical students will do well to remember the above requirements, and secure their Medical Certificates before the opening of the MEDICAL COLLEGE.

II. Prospective medical, dental or pharmaceutic students will save time and the possibility of miscarriage of their mail, if their letters of inquiry are directed to the Secretary of the School of Medicine, 5th and W Streets, N. W.

III. *There are no funds available for helping students in the School of Medicine. The Faculty does not advise prospective students to come to the School until they are able to pay their tuition in full, without having to depend upon outside employment, as the successful study of medicine, dentistry or pharmacy can be done only by those who devote all of their time to it.*

IV. The Medical College of Howard University is now recognized by the Conjoint Board of England, and its graduates are admitted to the final examinations of the Board in Medicine, Surgery, and Midwifery on production of evidence of having fulfilled the necessary regulations in regard to general education, and to the Professional curriculum extending over five years."

V. STUDENTS ARE ADVISED TO RETURN PROMPTLY, AS LECTURES, RECITATIONS, CLINICS AND PRACTICAL WORK WILL BEGIN IMMEDIATELY UPON THE OPENING OF THE SESSION.

School of Medicine.

Including the Medical, Dental and Pharmaceutic Colleges.

HISTORY OF THE MEDICAL DEPARTMENT.

Howard University was chartered by act of Congress, March 2, 1867. Section 5 of the charter provided that the University should "consist of the following departments * * * fifth, medicine * * *." Already, January 8, 1867, a committee had been appointed to "consider a plan for a Medical Department." A number of meetings were held and reports were made, but it was not till April 13, 1868, that a sufficiently definite report was made under which the department was organized. The report provided that "The Medical Department of Howard University shall consist of a Medical School, Pharmaceutic School and a General Hospital. (See Howard University Medical Department, Washington, 1900, p. 5 *et seq.*). The first meeting of the Medical Faculty was held May 6, 1868. A plan for College and Hospital buildings was reported July 15. November 5 the first session was inaugurated by a public meeting at the First Congregational Church. The inaugural address was on the subject of "The opening of the study of the science of medicine to all persons without distinction of sex or race." The first class consisted of eight students, seven in medicine and one in pharmacy. The session ended March 1, 1869. Sessions have since been regularly held. The Department has graduated to date 1347 students—901 medical, 225 dental and 221 pharmaceutic. The sessions have been gradually lengthened until now they end June 1, and the number of years increased from two to four. The beginning of the Dental College may be put down as October 11, 1881, with the appointment of a Lecturer on Practical Dentistry to the medical class. The first regular session of the Dental School was in 1883-4.

In conformity with the spirit of the organic law of the University, the Medical Department, including the Medical, Dental and Pharmaceutic Colleges, is open to all persons, without regard to sex or race, who are qualified by good moral character, proper age and suitable preliminary education.

The forty-fifth annual session will begin September 25, 1912, and continue till June 4, 1913.

Washington City.

This city affords some peculiar facilities for the study of medicine and the allied subjects.

There are several Libraries containing medical books, which may be consulted by the students. That of the Surgeon General's Office, Seventh and B streets, S. W., contains over 150,000 works on medicine and the collateral sciences. The Library of Congress contains about 800,000 books, many of which are medical. The Patent Office Library also contains many books on medicine and the allied sciences.

The reading rooms of these are open from 9 to 4.30 o'clock daily, except Sundays; those of the Library of Congress are open also on Sunday, and in the evenings.

The Carnegie Library, completed at a cost of \$50,000 is regarded as one of the most beautiful college libraries in the country. The library contains about 25,000 books and 15,000 pamphlets. The leading magazines and daily papers from different sections of the country are on file. A reading and consulting room has been set apart for the students of the School of Medicine where may be found over a score of the leading medical, dental and pharmaceutic journals, bulletins, text-books and reference works.

There are also Museums which are accessible to students. The Army Medical Museum, Seventh and B streets, S. W., is the finest of its kind in the world. The specimens illustrate the diseases and injuries of both civil and military life, normal anatomy, both human and comparative, and medical, surgical and transportation appliances—in all about 25,000 specimens. Open daily, except Sundays, from 9 to 4.30 o'clock. The National Museum and Smithsonian Institution, situated in the Smithsonian grounds, has the largest and best collection in the country, illustrating the natural sciences. The specimens of *Materia Medica* are useful to medical and pharmaceutic students. Open daily, from 9 to 4.30 o'clock. The Museum of Hygiene, southeast corner of Eighteenth and G streets, N. W., is under the charge of the Surgeon General of the Navy, and contains, as the name indicates, illustrations of sanitary science. Open daily, except Sundays, from 9 to 4.30 o'clock. The Agricultural Department contains a museum of the products of agriculture; the Botanic Gardens a collection of plants of all countries, and the Patent Office Museum models of surgical appliances.

Freedmen's Hospital.

On the square adjacent to that on which the Medical College Buildings stand have been erected hospital buildings at a cost of \$600,000.

The hospital has the great advantage of being a hospital instituted primarily for teaching purposes, as all who are admitted are utilized freely for instruction. There are few hospitals where this is carried so far, the only restriction being the possibility of doing the patient harm. It may be well to emphasize this fact, as it has formed a distinct feature of this hospital since its beginning and this feature has been maintained and developed. The hospital embraces a central building completed in 1908 and a central heating plant, containing the laundries. The hospital now has about 300 beds and contains two clinical amphitheatres, clinical laboratories and a room for X-ray diagnostic work and X-ray therapy. The Faculty practically makes up the staff of the Hospital. They are teachers who attend regularly upon the patients (each upon such cases as come regularly within his special department), and give the clinical instruction. Clinics are held every day during the year and examinations are made, prescriptions given, and surgical operations performed in the presence of the classes or of sections thereof.

The patients are assigned to students who take the histories of the cases, make the physical examinations, the diagnosis and prognosis and suggest the line of treatment or operative procedure thought necessary, this under the direction of the professor in charge. The clinical laboratories under the direction of the departments of internal medicine, surgery, gynecology and nervous diseases, all of which are especially equipped, furnish facilities for the scientific study of cases and are freely used by students as time and space permit. Stress is laid upon the value of ward and bedside instruction. The character of the hospital is such that this mode of instruction can be carried out more fully and more systematically than in many hospitals available for teaching purposes; this enables the statement that the practical hospital work the students of this department are able to do is not yet given in many medical schools. Without detracting in any manner from the benefit which the patient may receive, it may be stated that much of the work of giving treatment, of dressing wounds and of giving other detailed attention to patients is carried out, under proper supervision, by senior students. For the treatment of diseases of the nervous system, the hospital is furnished with apparatus for generating all kinds of electrical currents.

Attendants especially skilled in the application of electricity and massage are put in charge of such cases and are assisted by senior students who aid them in this work. A lying-in ward is established in which senior students are given an opportunity to attend cases of labor and become familiar with the duties of the lying in ward, under the immediate direction of the professor of obstetrics and his assistants. A large number of the cases admitted to the hospital are from a distance, and are of more than common interest, including numerous surgical and gynecological cases requiring major operation, many cases of disease of the lungs, heart, blood, digestive system and kidneys, and of the nervous system. The eye, ear, nose and throat service is large and replete with instructive cases. Patients with contagious diseases are treated in the isolation hospital.

The report of the hospital ending June 30th, 1911, shows:

At the close of the preceding year there remained 154 patients—87 from the District of Columbia and 67 from the States. Two thousand four hundred and ninety-eight were received during the year, and 248 births occurred in the hospital, making a total of 2,900 indoor patients treated as against 2,869 the previous year. Of those under care, 1,882 were residents of the District of Columbia and 1,018 were from the States. Two thousand seven hundred and twenty-four were discharged during the year, their conditions being as follows: recovered, 1,416; improved, 919; unimproved, 138; not treated, 17; died, 234; leaving 176 in the hospital July 1, 1911, of which number 100 were from the District and 76 from the States. The mortality for the year from all causes was 8 $\frac{1}{2}$ per cent. Deducting the 13 premature births and the 57 moribund cases, the percentage of deaths is found to be 5.6 $\frac{1}{2}$ —a very low death rate for a hospital of this character. In the surgical division 1,767 operations were performed, or 285 more than during the previous year.

In the outdoor department 4,839 were treated—an increase of 292 over last year—as follows:

Medical, 1,258; surgical, 351; nervous, 192; eye, 554; ear, nose, and throat, 437; pediatrics, 344; gynecology, 482; dermatology, 314; genito-urinary, 778; tubercular, 91; orthopedic, 38. The number of visits to this department was 5,637.

The New Science Hall.

The Science Hall, built at a cost of \$90,000, is available for work. The building is equipped with facilities and apparatus to meet the demands for the best modern scientific teaching. The Hall measures one hundred and twenty by sixty-four feet and is four stories in height, including the basement story which stands above the ground, and is available for laboratory, workshops, storerooms, etc. The first floor is occupied by the Department of Biology; the second by the Department of Physics; and the third by the Department of Chemistry. There is a large amphitheatre, with ample seating capacity for the largest classes and for special lectures. The best modern facilities are thus afforded for elementary and advanced work in the several sciences.

The Medical Building.

The Medical Department is situated on W Street, N. W., between Fifth and Sixth Streets. The LeDroit Park cars pass by the buildings, and the Seventh Street, Ninth Street and U Street lines are within a few blocks, so that in ten minutes a student can reach the heart of the City.

The main building is a structure of four stories and basement. It contains the lecture rooms and the anatomic, physiologic, chemic, histologic, bacteriologic, pathologic, dental and pharmacal laboratories. It is well supplied with apparatus and materials for illustration. The laboratories are modern and thoroughly equipped.

Rooms and Board.

The Secretary keeps a list of places where rooms and board may be obtained at reasonable prices. Board may be procured at the University dining hall at \$10 per month.

To Parents and Guardians.

Parents and guardians who wish the Faculty to exercise some supervision over their children and wards should notify the Secretary. Students should keep the Secretary informed of their residences and changes in the same, both in and out of the city, so that if necessary he may communicate with them at any time.

Rules Governing the Standing and Conduct of Students.

Students are expected and required, while in and about the College and Hospital buildings, to conform to the rules and regulations thereof, to conduct themselves in a quiet, orderly and gentlemanly manner; and violations of this rule will necessitate the expulsion of the offending students.

The standing of each student in each course will be determined by his record in examinations, in the class quizzes, in his daily attendance and in hospital work. The grade will be made upon the scale of 100, and in making up the grade, examinations, quiz record and attendance count. Examinations in lecture, recitation and laboratory courses are held at the end of each half term.

Students must obtain a grade of 75 per cent in each study in order to receive credit for the same. Students failing in three or more studies in any year will be required to repeat the work of that year, or may be required to terminate their connection with the school, at the option of the Faculty. Students except Seniors failing in less than three studies in any one year will be allowed a re-examination in such studies. Undergraduates failing in not more than two studies may be conditioned in such studies, but said conditions must be removed during the first half of the ensuing year or the student must repeat the work of the year. Senior students who fail must repeat the work of the entire year. The work of making up conditions must be done outside of the regular schedule hours.

Students must be in attendance promptly at the time designated for recitations, examinations and clinics. No excuse for absence will be accepted except for sickness, in which case the instructor must be notified before the examination begins.

An examination will be held at the end of each year in the studies of that year, and the student shall not be eligible to promotion to the succeeding year if he fails to make a passing mark. Students who fail in the Spring examination for promotion, may be re-examined in the following September.

Clinics and Practical Work.

Clinics are held as indicated in the program of hours.

Seniors and Juniors are required to attend these clinics, and their attendance and proper performance of their practical work will enter largely into determining their promotion or graduation.

Dental and pharmaceutic students must also attend the practical work of the Dental Infirmary and Hospital Dispensary, as well as the laboratory work in their respective Colleges.

The Faculty reserves the right to make any changes in the schedule of lectures, recitations, fees, etc.

Post Mortems.

Post Mortem examinations will be made as often as possible, and students will be required to attend and assist. This will afford an excellent opportunity for the study of both normal and morbid anatomy, as well as the steps of the operation itself.

Graduation.

Eligibility for graduation will depend not only upon the fulfillment of all the requirements, especially as to the practical work of the student set forth under the head of either College of this Department, but also on the moral character of the student. For further information in regard to graduation in Medicine, Dentistry or Pharmacy, see under the head of each College.

Each student is obliged to attend 80 per cent of the exercises in every course or study for which he seeks credit. No student shall be given credit on examinations unless he attains a grade of 75 per cent, and no student shall be graduated unless he shall have attained a passing grade in each and all subjects of the required curriculum.

The Faculty reserves the right to determine whether any student shall pass from one grade to another; whether he shall be entitled to a degree; or whether he shall continue his attendance or terminate his connection with the institution on the ground of what may be deemed mental or moral unfitness for the profession, disorderly conduct, or failure to comply with the rules of the College.

The student is admonished that his conduct in the laboratory, his punctual attendance in his class and interest shown in his work will have great weight with his instructors, while the lack of these qualities will certainly act against him.

Fees.

The College fees and cost of books, instruments, board, room, laundry and incidentals will hardly be less than \$250 per session of thirty-two weeks.

Matriculates, <i>i. e.</i> , new students; paid once.....	\$ 5.00
Medical College, per term.....	100.00
Dental College, per term.....	80.00
Laboratory fee.....	20.00
Pharmaceutic College, per term.....	80.00
Laboratory fee, first and second term, each.....	8.00
Senior year	10.00
Graduation fee	7.00
Library fee	1.00
Athletic fee	1.00

A laboratory deposit will be required for breakage. This amount will be returned at the end of the session if there is no destruction of property and must be paid before the student is admitted to the laboratory.

All fees are paid to the Treasurer of the Faculty, Dr. William C. McNeill, and are payable, *half on registration, the other half on the first of the following January.*

Parents should send money for tuition directly to the Secretary-Treasurer.

All fees must be paid before a student is promoted.

Lectures and Recitations.

Instruction is given in this school by didactic and clinical lectures, recitations and practical exercises. Students will not be allowed to absent themselves from lectures, recitations, laboratory work, clinical lectures and other practical exercises of their respective years without sufficient excuse. Instructors keep a record of attendance and report to the Secretary of the Faculty.

Examinations will be held in the several subjects at such times as the professors may determine, and at the close of the session, *notice of which may or may not be given. The minimum passing mark is 75. Only two additional examinations will be given. Any student failing to pass examinations after three attempts will not be permitted to continue his connection with the school. Absence from more than one-fifth of a course will render a student ineligible for examination. The hours of clinics are subject to change.*

SPECIAL LECTURES.

At stated times important special lectures will be given. The object of these lectures is to afford the student an opportunity to attend special courses given by practitioners who are eminent in their several departments.

These lectures, which are accompanied, when desirable, by clinical demonstrations, add greatly to the value of the regular course.

NEW STUDENTS.

Please do not forget to send in the names of prospective students of medicine, dentistry or pharmacy. If any such have conversed with you in reference to taking up either course, place the Secretary in communication with them.

THE MEDICAL COLLEGE

REV. STEPHEN M. NEWMAN, A. M., D. D.
President of the University.

EDWARD A. BALLOCH, A. M., M. D., DEAN, 1511 Rhode Island Ave., N. W.
Professor of the Principles and practice of Surgery and Clinical Surgery.

DANIEL S. LAMB, A. M., M. D., VICE-DEAN, 2114 Eighteenth St. N. W.
Professor of Anatomy.

WILLIAM C. McNEILL, M. D., SECRETARY.
Professor of Gynecology.

NEIL F. GRAHAM, M. D., 909 New York Avenue, N. W.
Emeritus Professor of Surgery and Professor of Physical Diagnosis.

CHARLES B. PURVIS, A. M., M. D., Boston, Mass.
Emeritus Professor of Obstetrics and Gynecology.

JOHN E. BRACKETT, M. D., 1310 Rhode Island Avenue, N. W.
Emeritus Professor of the Principles and Practice of Medicine.

WALTER W. ALLEGER, M. D., Phar. D., 143 U Street, N. W.,
Emeritus Professor of Bacteriology.

GEORGE N. PERRY, M. D., 1316 Q Street, N. W.
Professor of Obstetrics and Pediatrics and Clinical Pediatrics.

.....
Professor of Physiology.

COLLINS MARSHALL, M. D., 2507 Pennsylvania Avenue, N. W.
Professor of Pathology and Clinical Microscopy; Director of Pathologic Laboratory.

PAUL BARTSCH, M. S., Ph. D., 2416 Fourteenth Street, N. W.
Professor of Histology, Director of Physiologic and Histologic Laboratories; Lecturer on Medical Zoology.

EDWARD D. WILLISTON, A. M., M. D., 1507 S Street, N. W.
Professor of Medical Jurisprudence, and Instructor in Clinical Obstetrics.

JOHN W. MITCHELL, M. D., Phar. D., 817 T Street, N. W.
Professor of Materia Medica and Therapeutics, Clinical Assistant in Pediatrics.

ROBERT SCOTT LAMB, M. D., The Cecil.
Professor of Ophthalmology and Director of Eye Clinic.

- WILLIAM A. WARFIELD, M. D., 1901 Eleventh Street, N. W.
Professor of Abdominal Surgery; Surgeon in Charge of Freed-
men's Hospital.
- J. J. RICHARDSON, M. D., 1509 Sixteenth Street, N. W.
Professor of Otology, Laryngology and Rhinology.
- WILLIAM L. ROBINS, M. D., The Rochambeau.
Professor of Nervous and Mental Diseases.
- WILLIAM G. ERVING, M. D., 922 Seventeenth Street, N. W.
Professor of Orthopedic Surgery.
- H. ATWOOD FOWLER, M. D., The Cumberland,
Professor of Genito-Urinary Diseases.
- HENRY P. PARKER, M. D., 1518 Connecticut Avenue,
Professor of the Principles and Practice of Medicine.
- MARCUS WARD LYON, JR., M. S., M. D., 48 V Street, N. W.,
Professor of Bacteriology; Instructor in Clinical Microscopy.
- HERBERT CLAY SCURLOCK, A. B., M. D., 428 College Street.
Professor of Chemistry, Lecturer on Electro-Therapy.
- CHARLES I. WEST, M. D., 924 M Street, N. W.,
Associate Professor of Anatomy.
- AUSTIN M. CURTIS, A. M., M. D., Thirteenth and U Streets, N. W.
Associate Professor of Surgery.
- ALBERT RIDGELEY, M. D., 950 S Street, N. W.,
Associate Professor and Demonstrator of Anatomy.
- CARROLL A. BROOKS, M. D., 1321 T Street, N. W.,
Associate Professor of Physiology; Assistant in Clinical Medicine.
- WILLIAM A. WELLS, JR., M. D., Phar. G., 1161 First Street, N. W.,
Assistant Professor of Pathology.
- CARYL BURBANK, M. D., 2147 F Street, N. W.,
Assistant Professor of the Principles and Practice of Medicine.
- NEIL D. GRAHAM, A. B., M. D., 909 New York Avenue, N. W.,
Assistant Professor of Hygiene and Preventive Medicine.
- WILLIAM A. JACK, M. D., 1423 T Street, N. W.,
Demonstrator of Practical Surgery.
- ROY D. ADAMS, M. D., Stoneleigh Court.
Lecturer on Embryology.
- HENRY H. HAZEN, M. D., 1204 Eighteenth Street, N. W.,
Clinical Professor of Dermatology.
- WILLIAM F. SOWERS, M. D., 1707 Massachusetts Avenue, N. W.,
Instructor in Clinical Surgery.
- CHARLES H. MARSHALL, M. D., 2710 P Street, N. W.,
Clinical Assistant in Gynecology.
- MILTON A. FRANCIS, M. D., 2112 Pennsylvania Avenue, N. W.,
Clinical Assistant in Surgery.

- HARRY H. KERR, M. D., 1742 N Street, N. W.,
Instructor in Clinical Surgery.
- MARTHA M. BREWER-LYON, M. S., M. D., 48 V Street, N. W.,
Clinical Assistant in Ophthalmology.
- WILLIAM H. WILSON, M. D., 1515 Tenth Street, N. W.,
Assistant Demonstrator of Anatomy.
- JAMES F. JOHNSON, A. M., M. D., 208 O Street, N. W.,
Assistant Demonstrator of Anatomy.
- EDWIN H. REEDE, M. D., 516 M Street, N. W.,
Clinical Assistant in Medicine.
- ELIZABETH SOHON, M. D., 512 I Street, N. W.,
Clinical Assistant in Ophthalmology.
- LEWIS C. ECKER, M. D., 1309 Connecticut Avenue, N. W.,
Clinical Assistant in Medicine.
- MILTON HAHN, M. D., The Aibany,
Clinical Assistant in Medicine.
- RALPH BURNETTE STEWART, Phar. D., M. D., 1809 Fourth
Street, N. W.,
Assistant in Pathology.
- GEORGE W. DAVIS, M. D., Freedmen's Hospital.
Lecturer on Anaesthesia.

Quiz Masters.

<i>Anatomy</i>	{ DR. WEST.
	{ DR. RIDGELEY.
<i>Physiology</i>	DR. BROOKS.
<i>Chemistry</i>	DR. SCURLOCK.
<i>Histology</i>	DR. WILSON.
<i>Practice</i>	DR. BURBANK.
<i>Surgery</i>	{ DR. WARFIELD.
	{ DR. CURTIS.

REQUIREMENTS FOR ADMISSION TO HOWARD UNIVERSITY MEDICAL COLLEGE.

The applicant for admission to the Medical College of Howard University must present to the Secretary of Faculty of the College at least ten days before the opening of the College his credentials, properly signed, showing that he has successfully pursued the subjects mentioned below, under the condition stated, in an approved high school, normal school, academy, and college or university.

The requirements for unconditioned entrance to the Medical College of Howard University shall be the graduation from an approved college or scientific school granting the degree of A. B., B. S., Ph. B., (or equivalent); or the completion of a four-year course of an accredited high school, approved by the Board of Regents of the State of New York, and in addition one year's work in college physics, chemistry, botany and zoology and the possession of a reading knowledge of one modern language besides English.

REQUIRED SUBJECTS.

The requirements in Groups I and II are absolute.

Group I.

English Language—3 units.

- (a) English Grammar.
- (b) Rhetoric and Composition.
- (c) Reading Classics.

Group II.

History of the United States, as presented by standard authors, one unit.

General History as presented by Meyer's, one unit.

General History or equivalent text.

Greek and Roman History or English History will be accepted as a substitute for General History.

History—2 units.

Group III.

Mathematics—3 units.

Algebra—through quadratics—standard authors, one unit.

Geometry—plane and solid—standard authors, one and one-half units.

Plane Trigonometry—one-half unit.

Group IV.

Physics, one unit. In physics the candidate should have followed a collegiate course for at least one year. This should include three hours a week of classroom work, and at least three hours a week of *quantitative* work in the laboratory. Special attention should be given to theoretical mechanics, and to the mechanical and electrical experiments.

Chemistry, one unit. The candidate should have followed a course in general chemistry for at least a year. This course should include laboratory work, about three hours a week through one year, and lectures and class-room work covering the outlines of inorganic chemistry.

Botany and Zoology, one-half unit each. The candidate should have followed for at least one year a laboratory course of six or more hours a week, upon the structure, functions and life histories of selected types of animals and plants.

Group V.

Modern Languages—2 units.

German or French. The applicant must be able to read French or German.

Group VI.

Latin—2 units.

(a) Grammar.

(b) Prose Composition.

(c) Reading—Four books of Caesar's Gallic War.

Students are not permitted to enter with a condition in Latin.

A unit is the credit value of 36 weeks' work of 5 recitation periods per week, each recitation period to be of not less than 45 minutes.

A point is the credit value of 18 weeks' work of 5 recitation periods per week, each recitation period to be of not less than 45 minutes.

A count is the credit of one recitation period per week of not less than 45 minutes through 36 weeks.

**DETAIL OF ACADEMIC (SECONDARY) WORK
AND EXAMINATION.**

Total of 60 Counts.

REQUIRED GROUP—Minimum, 35 Counts.

REQUIRED STUDIES:	CREDITS	ACCEPTED
	Minimum Counts	Maximum Counts
English	10	20
Mathematics	10	20
Latin	10	20
Physics	5	5
Total.....	35	65

ELECTIVE GROUP—Maximum, 25 Counts.

ELECTIVE STUDIES:		
Greek	8	10
French	8	10
German	8	10
Spanish	8	10
History	4	15
Chemistry	5	5
Botany	2	5
Zoology	2	5
*Biology (5).....	4	5
Physiology and Hygiene.....	2	5
†English Literature (3).....	4	5
Trigonometry (3).....	2	2
Physical Geography.....	2	5
Drawing	2	2
Total Elective	25	

*See No. 5, page 17.

†See No. 3, page 17.

INSTRUCTIONS.

1. As used in this table, a Count is the measure of the work successfully completed in a secondary or high school pursued an entire school year of 36 weeks, in one weekly recitation period of not less than forty-five minutes.

2. The required group, 35 Counts, must be presented by all applicants. Sufficient counts to make a total of 60 Counts required may be selected from the elective group. The credit which will be accepted in the several studies is shown by the printed figures.

3. English Literature of the elective group may not be counted unless a year has been given to that subject in addition to the required 10 Counts in English, and Trigonometry may not be counted unless it is in addition to the required 10 Counts in Mathematics.

4. Civics is not accepted as a subject, but may be counted as a part of American History.

5. Biology is the equivalent of Botany and Zoology, and it can be given no credit if an applicant is credited with Botany or Zoology.

6. For those who cannot meet the above requirements, a five-year course is recommended. The first year of such a course will consist of mathematics, physics, chemistry, botany and zoology, graphics, and French or German. Provision for such a course has been made in connection with the College of Arts and Sciences of Howard University.

For additional information, apply to the Secretary of the Medical Faculty, W. C. McNeill, M. D.

CREDIT FOR WORK IN ACCREDITED MEDICAL COLLEGES.

It is considered desirable for students to complete their course in medicine at the institution at which they first matriculate. If, however, for any good reason, a change is desired, students from other medical colleges recognized by this College may be admitted to advanced standing under the following conditions:

FIRST: They must present a letter of honorable dismissal from the school they have attended, showing that they were in good standing and that all their bills were paid.

SECOND: They must present satisfactory evidence that they have at the time they enter this College, fully completed the preliminary educational requirements for admission to the School.

THIRD: They must present credentials from the Dean or Secretary of the college which they have attended, properly signed and sealed, showing that they have been registered medical or dental students, and in residence for the time for which credit is sought.

FOURTH: They must present satisfactory evidence from the college attended showing that the amount and character of work they have completed, is such as to entitle them to the advanced standing they seek in this School.

Time credits may be given to students who have the necessary

entrance requirements, and who are graduates or students of Colleges of Homœopathic or Eclectic Medicine, for such courses of instruction of the required duration as they have successfully fulfilled, excepting in the course of the fourth year, provided they pass satisfactory examinations in *Materia Medica* and Therapeutics. Credit may be given to the holder of a Bachelor's Degree from an approved college or university for any work in the medical branches which he has successfully completed in his college course, only so far as it is the full equivalent of corresponding work in the medical curriculum. The holder of such Bachelor's Degree may also be given time credits of not exceeding one year, provided that such student has had at least 40 hours in physics, 144 hours in chemistry, 24 hours in osteology, 292 hours in human or comparative anatomy, 124 hours in histology, 85 hours in embryology, 145 hours in physiology and 46 hours in *Materia Medica*; provided, that the applicant for such time credits satisfies the professors of the chairs mentioned in the medical school as to his proficiency in these first-year medical studies. Such student may be allowed to complete a course for the medical degree in not less than 31 months, provided he completes the remainder of the medical curriculum in that time.

CURRICULUM.

The curriculum comprises Anatomy, Physiology, Histology, *Materia Medica*, Pharmacology, Therapeutics, Electro-therapeutics, General Chemistry, Organic Chemistry, Toxicology, Obstetrics, Embryology, Practice of Medicine, Surgery, Minor Surgery, Hygiene, Dietetics, Pathology, Medical Zoology, Post Mortem Work, Clinical Microscopy, Bacteriology, Gynecology, Pediatrics, Ophthalmology, Otology, Dermatology, Laryngology, Rhinology, Mental and Nervous Diseases, Genito-Urinary Diseases, Physical Diagnosis, Medical Jurisprudence, Tropical Medicine, and Anaesthetics.

Students are required to attend at least four courses of lectures in separate years, and pass a satisfactory examination in each branch of study, before becoming eligible for the Degree of Doctor of Medicine. The subjects of study for Freshmen are Anatomy, Physiology, Histology, *Materia Medica*, Pharmacology, Embryology. For Sophomores, Anatomy, Urinalysis, Hygiene, Physiology, Therapeutics, Organic Chemistry, Toxicology, Bacteriology and General Pathology. For Juniors, Dietetics, Obstetrics, Practice of Medicine, Pediatrics, Electro-therapeutics, Surgery, Physical Diagnosis, Pathology, Medical Zoology, Dermatology, and Clinical Microscopy. For Seniors, Practice of Medicine, Surgery, Gynecology, Ophthalmology, Otology, other specialties and Medical Jurisprudence. Post mortem work as often as practicable, and available to all the classes.

DEPARTMENT OF ANATOMY.

DANIEL S. LAMB, A. M., M. D.,

Professor and head of the Department of Anatomy.

CHARLES I. WEST, M. D.,

Associate Professor of Anatomy, Lecturer on Topographic Anatomy and Quiz-Master in First Year Anatomy.

ALBERT RIDGELEY, M. D.,

Associate Professor of Anatomy, Demonstrator of Anatomy and Quiz-Master in Second Year Anatomy.

JAMES F. JOHNSON A. M., M. D.,

Assistant Demonstrator of Anatomy.

WILLIAM H. WILSON, M. D.,

Assistant Demonstrator of Anatomy.

The lectures on descriptive anatomy will cover the most important subjects from a medical and surgical point of view and will be illustrated with drawings, plates, models, the skeleton and dissections. The freshman year will be devoted to Osteology, Arthrology and Myology; the sophomore year to Angiology, Neurology and Splanchnology. Topographic Anatomy also in the second year. The students are required to attend a quiz once a week, throughout the term.

Abundant facilities are provided for the study of practical anatomy. Under the law of the District of Columbia, the college secures a sufficient supply of anatomical material. The dissecting rooms, commodious, well lighted and ventilated, are under the charge of the Demonstrator of Anatomy and are open daily except Sundays throughout the term. Students are required to complete their dissections before becoming eligible for final examinations, and each is required to dissect one half of a cadaver. The Demonstrators supervise the work of dissection, examine the students thereon, keep a record of the work and report to the Secretary of the Faculty. Dental students dissect two parts. On payment of a small deposit bones may be taken for home study.

DEPARTMENT OF HISTOLOGY.

The work in histology constitutes a thoroughly practical laboratory course. The first month is devoted to lectures on laboratory technique. This is followed by an examination of cells and elementary tissues. The remainder of the year is devoted to the study of the various organs. Each subject is projected upon a screen in the classroom by means of a projecting instrument and the picture is discussed with the students. The same slide is then examined by each student in detail with the microscope and described and sketched by him in his notebook. Two (2) hour periods a week are devoted to this work which is attended by the entire class.

In addition to this the students, in sections of ten, are required to spend two and a-half hours a week in the smaller laboratory, the time being devoted to a thorough drill in the histologic technique necessary for the preparation of microscopic slides.

Laboratory.

The histologic laboratories consist of two rooms which occupy the greater part of the entire north half of the second floor of the medical building. In the larger room, the class room, each student finds a desk, provided with a small incandescent lamp to assure even and

steady light for his instruments, and a microscope with the necessary accessory equipment. In this room there are also installed three projection instruments, a lantern slide stereopticon, a microscopic slide projector, provided with triple nose pieces and three objectives, and a double reflectoscope for the projection of opaque objects. This room is so arranged that it can be quickly darkened to enable the lecturer to make use of any one of these lamps, at any moment.

This room also serves as the histologic lecture room as well as the laboratory where the class conducts its microscopic studies.

The second room is devoted to histologic technique. Here the students, in groups of ten, are taught the various steps necessary for the preparation of histological material and are required to prepare sets of slides for their own cabinets. This laboratory is equipped with Minot's Precision and Rotary Microtomes as well as a number of large student sliding microtomes, a freezing microtome, etc., and the usual assortment of instruments, laboratory apparatus, reagents and stains.

For class work the reserve series of slides consisting of about 50,000 selected specimens is largely used.

PHYSIOLOGICAL CHEMISTRY.

PAUL BARTSCH, M. S., Ph. D., and Assistants.

Director Physiologic Laboratory.

The physiologic laboratory occupies the northwest corner of the main floor of the medical building. It is well supplied with tables, equipped with basins, running water and gas, as well as the necessary laboratory apparatus and reagents.

This work extends over the freshman year and consists in an examination of the chief organic substances, carbohydrates, fats and proteids that compose the body. This is followed by a study of the chemistry of salivary, gastric and pancreatic digestion and an examination of bile, blood and milk, and some of the most important food stuffs.

EMBRYOLOGY.

ROY D. ADAMS, M. D.,

Lecturer and Director of Laboratory.

Two lectures or recitations and two laboratory hours per week throughout the sophomore year. The lecture course will embrace a comparative study of reproduction in the animal kingdom.

This course begins with a historical sketch of the "cell theory," and proceeds with a discussion of the structure of a typical cell, of cell division, of the maturation and fertilization of the sexual cells, and with an exposition of the fundamental physiological properties of protoplasm. This is followed by a discussion of the theory of gastrulation and the development of the primary germ layers. The histogenesis and structure of the tissues and organs is then taken up

and considered in detail, the lectures being illustrated by black board drawings, charts, models and lantern demonstrations. Special attention is paid to the development and structure of the human placenta and the fetal membranes.

The laboratory course will consist of drawings, with full descriptive notes and examinations of sections of embryo of the chick, rabbit, etc., in various stages of development.

DEPARTMENT OF PHYSIOLOGY.

.....
Professor and Head of Department.
 CARROLL A. BROOKS, M. D.,
Associate Professor of Physiology.

Freshman Year.

There will be two hours a week of lectures, one of recitation for the session and two hours a week of laboratory work also for the session.

The lectures in physiology will be divided into two courses. For the freshman year a general introduction on the subjects of biology, morphology, embryology, physical forces, and metabolism, after which will be considered the subjects of the physiology of the blood, of the circulation, consideration of the blood glands, with the latest references to their relationship, and pathology, physiology of respiration, of digestion, of absorption, of the kidneys and secretion of urine, of animal heat, functions of the skin, and of the motor apparatus.

Sophomore Year.

There will be two hours a week of lectures, one of recitation for the session, and two hours a week of laboratory work also for the session.

The work of the sophomore year will embrace the general physiology, chemical and mechanical properties, physiology of the peripheral nerves, spinal nerves, physiology of the nerve centers, including the general functions of the spinal cord and brain, physiology of the sense organs, and reproduction and development.

In the division of this work freshman students will be required to complete the first year's work before being eligible for advancement. Sophomore students will be required to pass, at the end of their term, an examination including the first and second year's work. Lectures in physiology will be amply illustrated with the most perfect apparatus at command at the present date suitable for demonstrating through lantern slides, plates, drawings, all that can be shown in its relationship to human physiology. In addition, experimental work will be carried on through the instructors in the physiological laboratory arranged in such a way and time as to keep courses perfectly in touch.

Examinations from time to time will be held on the completion of any one of the above mentioned subjects and the student's standard graded through these periodical examinations which will be considered in connection with his final examinations.

Students will be especially instructed in the subjects of physiology as pertaining to examinations of the heart, respiratory organs, and methods of physical examinations.

DEPARTMENT OF MATERIA MEDICA AND THERAPEUTICS.

JOHN W. MITCHELL, M. D., Phar. D.,
Professor and Head of Department, and Assistants.

Instruction in this department is given during the first, second and third years by means of lectures, recitations, laboratory work and clinical instruction.

It is the firm conviction that the subjects of Materia Medica and Therapeutics should be taught as any other technical branch; viz: by recitations and by practical instruction. For this reason the subjects will be dealt with by repeated recitations and demonstrations. The students of the first and second years will recite twice a week throughout the term to the Professor, from a standard text-book on the subject of this year. The subjects will be explained and illustrated in their practical and clinical application by the Professor or his Assistants. Pharmacologic demonstrations of drugs will be made to the class when it is considered possible by so doing to emphasize the importance of the subject.

Laboratory of Materia Medica and Therapeutics.

These laboratories contain a complete cabinet of materia medica preparations, finished products, digestive ferments and active principles.

Laboratory work includes an examination of the physical and chemical properties of the drugs and agents used as medicines. In the first year two hours a week are spent in doing this laboratory work, under the direction of a pharmacist who is also a physician. Prescription writing is carefully considered throughout the course, attention being given to analysis, both in the English and Metric systems. The subject of prescription incompatibility is here to be studied, from the standpoint of its chemical, pharmaceutic and therapeutic combination. The second and third year classes will be divided into sections and taken into the hospital and practice given in the application of some remedies other than drugs; as hydrotherapy, the stomach tube, cautery, aspirator, hypodermic syringe, and in the various methods of administering such volatile substances as ether, chloroform, amyl nitrite, somnoform and nitrous oxid gas.

DEPARTMENT OF CHEMISTRY.

HERBERT C. SCURLOCK, A. B., M. D.,
Professor and Head of Department, and Assistants.

General Inorganic Chemistry is no longer taught as a part of the medical curriculum, hence the course in Chemistry deals entirely with the study of the compounds of carbon (Organic Chemistry).

Lectures and Recitations.

There will be two hours a week of lectures and recitations for the session.

The classes of carbon compounds, their structure, synthesis and transitions, are reviewed. Emphasis is placed upon the student's acquisition of the meaning of certain atomic groups and their manner of linkage in determining the classification and properties of substances. In the study of the individual substances the greater stress is placed upon those of importance from the medical point of view; however, considerable attention is given to certain commercial products and their manufacture.

The lectures are illustrated by lecture table demonstrations, charts, the exhibition of specimens, etc.

Laboratory.

There will be four hours a week of laboratory work for the session.

A part of the year is devoted to the practical study of some of the important or typical organic compounds. The remainder of the course is given to analytical work, which includes volumetric and gravimetric processes sufficient to prepare the student to make clinical and pharmaceutical analysis. Practice is given in pharmaceutical assaying, food analysis, water analysis, etc. The time allotted to these is necessarily limited, and students desiring further work may arrange for it under some of the courses outlined in the general catalogue of the University.

Written examinations are held monthly. Each student is required to keep a book of notes, which shall be subject to examination whenever called for by the instructor.

Urinalysis.

This course consists of lectures, recitations and laboratory work. Emphasis is placed upon the laboratory practice, and students are required not only to learn how to make correct analyses, but also interpret them correctly. From the hospital wards a great variety of specimens may be obtained, and each student is required to report upon several cases, the analytical work being checked by an instructor.

ELECTRO-THERAPY AND RADIOGRAPHY.

The lectures in electricity are amply illustrated by class-room demonstrations, and thorough instruction is given in the methods of dealing with the various current forms, their measurements, control and proper application.

Clinics are held to illustrate the therapeutic uses of electricity and the X-ray. The methods of fluoroscopic examination, radiography and the interpretation of radiographs are taught.

The course has been enlarged so as to include a study of most of the agents employed in physical therapeutics.

This department is well equipped with apparatus.

DEPARTMENT OF BACTERIOLOGY.

MARCUS WARD LYON, JR., M. S., M. D.,

Professor, Head of Department and Instructor in Clinical Microscopy.

The equipment is complete in every essential, microscopes, microtomes, sterilizers, incubators and other accessories for the study of bacteria are available. A collection of pathogenic and other bacteria is constantly on hand.

There will be two hours of lectures and laboratory work, twice a week for the session. A comprehensive course is given in practical bacteriology in which the students are taught methods of sterilization, preparation of stains, the technique of bacteriologic examinations, the methods of obtaining pure cultures of bacteria and of studying species after their isolation. The development of antitoxins, opsonins, immune bodies and agglutinins and the methods used in estimating them are also studied.

Laboratory work four hours twice a week for the session.

The laboratory course covers the practical application of bacteriology to the diagnosis, course and treatment of disease and includes preparation of culture media, the bacteriologic examinations of sputum, pus, blood, feces, milk, water, disinfectants, etc., as well as the culture and identification of pathogenic micro-organisms. The student is required to perform agglutination tests, and shown the practical methods of preparing and testing antitoxic sera. He also studies the results of experimental inoculation in suitable animals, and the microscopic and cultural characteristics of organisms of medical importance.

**HYGIENE, DIETETICS AND PREVENTIVE
MEDICINE.**

NEIL D. GRAHAM, A. B., M. D.

Assistant Professor.

Under Hygiene the physiological needs of the individual in regard to air, food, exercise, and clothing are considered in detail, and this knowledge made the foundation on which is based the more comprehensive discussion of sanitary procedures in general. For example: Rules and methods of ventilating and heating come under the subject of air. With water are studied, supply, chemical and mechanical purification, plumbing, sewerage, and disposal of sewage.

The section of Dietetics includes, besides a theoretical consideration of food and food values, fifteen hours practical work in modification of milk, arrangement of dietaries, demonstrations of the correct methods of cooking the various classes of foods, and the preparation of some of the more usual invalid dishes—predigested food, nutrient enemata, and the like.

The consideration of occupation, occupational dangers, and habitations follows the subjects of exercise and clothing.

The course in Preventive Medicine is designed to correlate the knowledge gained in other branches in that emphasis is placed on the methods—physiologic, bacteriologic, chemic, biologic—which have made

possible the discovery of the cause, mode of transmission, or prevention of disease.

The course concludes with a discussion of the existing medical laws, and their application.

PATHOLOGY.

COLLINS MARSHALL, M. D.,

Professor and Head of Department.

WILLIAM A. WELLS, JR., Phar. G., M. D.,

Assistant Professor.

RALPH BURNETTE STEWART, Phar. D., M. D.,

Assistant in Pathology.

The course consists of lectures, recitations and quizzes, with written examinations at stated periods, and the practical work consists of identification, study and drawing of microscopical specimens; the fixing, hardening, sectioning, staining and mounting of pathological tissues; the study of gross specimens and the performance of autopsies.

The laboratories of the college are supplied with all the necessary equipment for instruction in this important branch of medicine, including a projectoscope, microtomes, microscopes, etc., enabling the student to become familiar with all the routine work pertaining to this department.

General Pathology.

This course will be given to the sophomore class in the second semester, and includes the subjects properly coming under this heading, viz: general causation of disease, circulatory disturbances, degenerations, inflammation, neoplasms, and parasitic diseases.

The didactic work is supplemented in the laboratory by the study of specimens, illustrating the pathologic conditions under discussion at the time in the lecture room. As one subject after another is taken up systematically, the class is furnished by the department with specimens representing the particular lesions lectured on, which the student are required to study, and of which they make drawings. These drawings are taken into consideration in making up the final credits of each student. At the same time all the pathologic material available is used in teaching the student to prepare, cut, stain and mount his own sections.

Special Pathology.

This course is given to the junior class. The various tissues and organs are taken up in order, and the pathologic changes studied under general conditions before are now studied in their new relations and modifications.

Gross Pathology and Postmortem Work.

This course is given to both junior and senior students, and consists of identification and study of diseased parts with the naked eye, and the various microscopic stainings and other reactions.

The technique of making autopsies is taught by demonstrations, and opportunity is afforded the students to assist in the performance of the work.

DEPARTMENT OF OBSTETRICS.

GEORGE N. PERRY, M. D.,

Professor and Head of Department, and Assistants.

The subject of Obstetrics is taught in the junior year by didactic lectures, quizzes and the manikin and by thorough clinical instruction in the wards of the Freedmen's Hospital. The entire subject is covered by lectures which are closely followed by exhaustive oral and written quizzes.

There will be two lectures or recitations a week and three hours of ward work a week for the session.

The diseases of pregnancy and the abnormalities of the pelvis and genital tract are carefully presented and minutely considered, including the care and supervision of the patient during the entire period of gestation. Instrumental and surgical methods of delivery are taught and demonstrated on the manikin and on all cases requiring such aid in the hospital. Students are required to attend all cases of delivery in the hospital. Careful clinical instruction is given in the wards of the hospital including pelvimetry, vaginal examinations, palpation and all antepartum and postpartum conditions, both normal and abnormal.

Senior students are required to attend at least six cases of delivery and when sufficiently instructed, will be required to deliver, under the supervision of the Demonstrator, as many cases as possible.

DEPARTMENT OF SURGERY.

EDWARD A. BALLOCH, A. M., M. D.,

Professor and Head of Department.

AUSTIN M. CURTIS, A. M., M. D.

WILLIAM A. WARFIELD, M. D.,

Professor of Abdominal Surgery and Surgeon-in-Charge of Freedmen's Hospital.

WILLIAM A. JACK, M. D.,

WILLIAM G. ERVING, M. D.,

Professor of Orthopedic Surgery.

H. ATWOOD FOWLER, M. D.,

Professor of Genito-Urinary Diseases.

WILLIAM F. SOWERS, M. D.,

Instructor in Clinical Surgery.

HARRY H. KERR, M. D.,

Instructor in Clinical Surgery.

MILTON A. FRANCIS, M. D.,

Instructor in Clinical Surgery.

The subject of surgery is taught by didactic lectures, clinical lectures and operative clinics. Special stress is laid upon surgical pathology. The first semester of the junior year is given to this subject. During the fourth year students are brought into contact with practical surgery by means of ward work and as assistants at operations. This work is obligatory. Surgical diagnosis and the writing of case histories are taught in the hospital wards. In the minor surgery clinics students are taught the principles of aseptic surgery and operative technique. The course in operative surgery is illustrated by suitable material. Every effort will be made to give each student a thorough knowledge of modern surgery, theoretically and practically.

Genito-Urinary Diseases.

H. ATWOOD FOWLER, M. D.,
Professor and Assistants.

The work in genito-urinary surgery is chiefly clinical and the student learns by actual contact with the cases. Each student is taught urethral catheterization, the passage of bougies, the use of urethroscope and cystoscope, catheterization of the ureters, the technique of irrigation and instillations, together with the clinical laboratory examinations of urine, secretions and discharges. The hospital supplies abundant material for these courses. Whenever necessary the clinical demonstrations in the branches are supplemented by didactic lectures.

Orthopedics.

WILLIAM G. ERVING,
Professor and Assistants.

Two clinics a week for the term, preceded by short didactic lectures. It will be the aim of the department to teach as fully as the material to be obtained from the clinics and wards will permit by bringing the student in close contact with the actual cases. Every effort will be made to emphasize practical diagnosis and treatment of the affections included under orthopedic surgery. These will be demonstrated in the wards, clinics and operating room.

DEPARTMENT OF GYNECOLOGY.

WILLIAM C. McNEILL, M. D.,
Professor and Head of the Department.
CHARLES H. MARSHALL, M. D.,
Assistant in Gynecology.

The instruction in Gynecology comprehends lectures, recitations, demonstrations, and clinics.

Two hours a week of either lectures, recitations or specimen and

lantern demonstrations. It is intended that the histology, anatomic and pathologic as well as the operative side of Gynecology be made as clear as possible. Free use is made of charts, models, lantern slides and specimens, which are used to demonstrate diseases and operations.

The class is divided into sections which attend three clinics of two hours each per week throughout the session. These sections see all cases with the professor or his assistants before any plan of treatment is instituted.

In addition these sections write the histories of the patients admitted to the Gynecological service of Freedmen's Hospital, make examinations of the secretions, and whenever possible, assist in the operations and after-care of the patients.

Students will be taught how to make examinations and diagnoses of the various Gynecological diseases, and to familiarize themselves with the handling of instruments.

Especial care is taken to instruct students how to perform the various plastic operations in Gynecology, which are of such importance in private practice and which are easily performed in routine work.

DEPARTMENT OF MEDICINE.

HENRY P. PARKER, M. D.,

Professor and Head of the Department of Medicine.

CARYL BURBANK, M. D.,

Assistant Professor of Medicine.

HENRY H. HAZEN, M. D.,

Clinical Professor of Dermatology and Director of Tuberculosis Dispensary.

EDWIN H. REEDE, M. D.,

Lecturer on Physical Diagnosis and Clinical Assistant in Medicine.

LEWIS C. ECKER, M. D.,

Clinical Assistant in Medicine.

The course in Medicine is in part practical and in part didactic; however the greatest stress is laid on the practical side.

The lecture course, given by Drs. Burbank and Hazen, consist of three exercises a week for two years, the subjects being so arranged that the two years' course taken by both classes, covers all the important medical disease. This course is supplemented by a weekly quiz for each class.

The practical work consists, in the third year, of three exercises a week by Dr. E. H. Reede. This course is given in the dispensary of the Freedmen's Hospital, and the patients there admitted, and suitable patients from the hospital wards, are used for demonstration. In this course students are taught thoroughly the methods of examination and history taking; the idea of the training is to give the students the ability to bring out and recognize the important symptoms and physical signs for themselves. The diagnosis of the separate diseases,

simply the combination of the above, is brought about as a gradual evolution in the latter part of the course and in the succeeding year.

The practical instruction in the senior year is given in the wards of the hospital. The class is divided into small groups. The students in these groups take the patients admitted to the hospital in order. Students are required to take the patients' records, make examinations, if the patients' condition permits, and to make the laboratory examination of sputum, blood, urine, etc. The students are expected to know the condition of the patients from day to day. On three days a week ward rounds are held by the Professor and his Assistants. The more instructive cases are shown to the complete group, the essential points of diagnosis, a differential diagnosis and treatment are illustrated at the bedside. Once a week the Professor meets both classes in the amphitheatre and there presents cases suitable for clinical lectures.

PEDIATRICS.

GEORGE N. PERRY, M. D.,
Professor.

JOHN W. MITCHELL, M. D.,
Director of Clinic in Pediatrics.

The course, which is a graded one, consists of didactic lectures, class recitations and clinics. It is given in the junior year and consists of two recitations or quiz periods per week. The class is divided into several small groups and the students are assigned to service in the out-door and ward clinics.

In the didactic lectures particular attention will be given to maternal and artificial feeding of infants in health and disease and to the various methods of modifying milk; practical demonstrations of which will be given in the laboratory.

The several disturbances of nutrition will be considered and the practice of this knowledge in the wards and clinics at our disposal will give additional notice to the important subject of nutrition in the infant and young child.

The infectious and contagious diseases common to childhood will be considered in detail.

DEPARTMENT OF OPHTHALMOLOGY.

ROBERT SCOTT LAMB, M. D.,
Professor and Head of the Department of Ophthalmology.

MARTHA M. BREWER-LYON, M. S., M. D.,
Clinical Assistant in Ophthalmology.

ELIZABETH SOHON, M. D.,
Clinical Assistant in Ophthalmology.

The work in this Department is intended to give the student such a general knowledge of the diseases of the eye as every well educated physician ought to possess. The students are given the privilege of

examining the cases, of studying the progress of the diseases and the effect of the treatment from day to day; and also of witnessing the delicate technique of the operations on the eye. Each exhibition of cases is followed by a brief discourse on the etiology, pathology, symptomatology and treatment of the diseases under observation.

The course in Practical Ophthalmology consists of a clinic three times a week by the Professor and Assistants, practical instruction in the Out Patient Department of Freeman's Hospital to small sections of the senior class in the diagnosis and treatment of diseases of the eye, and demonstrations of operations. Each student is taught the use of the Ophthalmoscope, instructed in the use of the various instruments employed in functional examination, and shown the methods followed in recognizing and relieving eye-strain by means of glasses.

After the conclusion of the section teaching in the hospital, each student, by demonstrations receives practical instruction in the principal operations of ophthalmic surgery.

OTOLOGY, LARYNGOLOGY AND RHINOLOGY.

J. J. RICHARDSON, M. D.,
Professor and Assistants.

There will be one lecture a week throughout the session and two clinics of two hours each for the session.

This course of lectures will comprise a presentation of the special anatomy and physiology of the upper respiratory tract; the etiology and pathology of affections of the ear, nose and throat, and a description of the more common diseases of these organs, their diagnosis and treatment. Where practicable, these lectures will be illustrated by cases of the diseases described.

Small sections of the class will be taught the regional anatomy of the nose and throat by means of preserved specimens and models; the methods of rhinological, otological, and laryngological examination, with an opportunity to practice those methods on cases, and the medicinal and operative treatment of cases of diseases of the ear, nose and throat.

MEDICAL JURISPRUDENCE.

EDWARD D. WILLISTON, A. M., M. D.,
Professor.

The course in Medical Jurisprudence and forensic medicine will consist of a series of lectures, text-book study with reference to standard authorities, and occasional quizzes. No attempt will be made to treat the subject exhaustively; the aim being to give the student a clear understanding of his legal rights and duties as a medical practitioner, and of the general bearing of medical knowledge upon legal problems, which a doctor may be called upon to assist in solving.

MENTAL AND NERVOUS DISEASES.

WILLIAM L. ROBINS, M. D.,

Professor and Assistants.

There will be one lecture a week for the session. These lectures will be partly didactic, partly clinical. The didactic lectures will embrace systematic instruction in mental diseases, including: The essential principles of insanity; its nature and prominent features; concise definitions of the important technical terms used in psychological medicine, a comprehensive classification of mental diseases and their etiology, diagnosis, prognosis and treatment.

The clinical lectures will consist of the presentation of cases of mental and nervous diseases, illustrating the teachings of the didactic lectures.

DERMATOLOGY AND SYPHILOLOGY.

HENRY H. HAZEN, M. D.,

Clinical Professor of Dermatology and Syphilology.

Two hours a week of lectures and recitations through the entire senior year are devoted to this specialty. The work consists of lectures and recitations and two clinics a week for the session. Small sections of the senior class are assigned to the cases presented in the clinic, and are expected to make the diagnosis and suggest the treatment. The cases are then fully considered, the lecturer in charge making corrections, if need be, and outlining the treatment.

GRADUATION.

Candidates for the degree of Doctor of Medicine shall be at least twenty-one years of age and of good moral character; shall have attended the courses of lectures, etc., above described, at some regular medical college, the Senior course at least being at this School. They shall pass the final examinations, and shall have paid their fees in full. Students who have attended three courses of lectures in another school, affiliated with the Association of American Medical Colleges, may be examined for a degree on completing their senior course at this School, and shall be examined in all the senior branches and also in those branches which they have not previously passed. Senior students who fail in their examinations must repeat their senior studies.

SUMMARY OF THE REGULAR FOUR YEAR'S COURSE.

The graded curriculum is arranged as follows:

Freshman Year.

ANATOMY—Lectures, 3 hours; practical work, 7 hours; recitation, 3 hours per week for the term.

HISTOLOGY.—6½ hours laboratory a week; recitation 1 hour per week for the term.

PHYSIOLOGY.—Lectures, 2 hours; laboratory work, 2 hours; recitation, 1 hour per week for the term.

MATERIA MEDICA AND PHARMACOLOGY.—Lectures, 2 hours; laboratory work, 1 hour per week for the term.

ORGANIC CHEMISTRY AND TOXICOLOGY.—Lectures, and recitations, 2 hours; laboratory work, 4 hours per week for the term.

Sophomore Year.

ANATOMY.—Lectures, 3 hours; recitation, 2 hours per week for the term.

PHYSIOLOGY.—Lectures, 2 hours; laboratory work, 2 hours; recitation, 1 hour per week for the term.

EMBRYOLOGY.—Lecture, 1 hour; recitation, 1 hour; laboratory work, 2 hours per week for the term.

THERAPEUTICS.—Lectures, 2 hours; laboratory work, 2 hours; recitation, 1 hour per week for the term.

URINALYSIS.—1 hour per week for the term.

BACTERIOLOGY.—Lectures, 2 hours; laboratory work, 4 hours per week for the term.

PATHOLOGY.—Five hours a week lectures and laboratory work of the second half of the term.

TOPOGRAPHIC ANATOMY.—Lecture, 1 hour per week after March 1st.

PHYSICAL DIAGNOSIS.—Lectures, 2 hours per week after April 1st.

PREVENTIVE MEDICINE, HYGIENE AND DIETETICS.—Lectures, 2 hours per week for the term. Two hours of laboratory work per week for the session.

Junior Year.

OBSTETRICS.—Lectures, 2 hours; clinics, 2 hours; recitations, 1 hour per week for the term.

SURGERY.—Lectures, 2 hours; clinics, 6 hours; recitation, 1 hour per week for the term.

ORTHOPEDICS.—Lectures, 1 hour per week till February 1st.

PRACTICE OF MEDICINE.—Lectures, 2 hours; clinics, 6 hours; recitation, 1 hour per week for the term.

PHYSICAL DIAGNOSIS.—3 hours per week for the term.

PATHOLOGY AND CLINICAL MICROSCOPY.—5 hours per week for a half term.

ELECTRO-THERAPY.—1 hour per week for the term.

MEDICAL UROLOGY.—2 hours per week for ½ term.

DERMATOLOGY AND SYPHILOLOGY.—Lecture, 1 hour; clinic, 1 hour per week for the term.

PEDIATRICS.—Lecture, 1 hour; clinic, 1 hour per week for the term.

ORTHOPEDICS.—Lecture, 1 hour per week for half term.

Senior Year.

GYNECOLOGY.—Lectures, 2 hours; clinics, 6 hours; recitation, 1 hour per week for the term.

SURGERY.—Lectures, 2 hours; clinics, 6 hours; recitation, 1 hour per week for the term.

PRACTICE OF MEDICINE.—Lectures, 2 hours; clinics, 6 hours; recitation, 1 hour per week for the term.

ORTHOPEDICES.—Lectures, 1 hour; clinics, 4 hours per week for half term.

OPHTHALMOLOGY.—Lectures, 2 hours; clinics, 6 hours a week for half term.

MEDICAL JURISPRUDENCE.—Lectures, 1 hour per week for the term.

MENTAL AND NERVOUS DISEASES.—Lectures, 1 hour; clinics, 2 hours per week for the term.

OTOLOGY. AND LARYNGOLOGY.—Lectures, 1 hour; clinics, 2 hours per week for the term.

GENITO-URINARY DISEASES.—Lectures, 1 hour; clinics, 2 hours per week for the term.

TROPICAL MEDICINE.—Lectures, 15 lectures beginning February 1st.

SCHOOL OF MEDICINE OF HOWARD UNIVERSITY.
Schedule of Lectures, Recitations and Clinics.
SESSION, 1912-1913.
FRESHMEN.

Hour	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
9 A. M.	Chemistry Lecture D. & P.	Physiology Recitation			Chemistry Lecture D. & P.	Physiology Recitation M. & D.
10 A. M.	Chemistry Laboratory D. & P. 2 hrs.	Physiology Laboratory 2 hrs. Pharmacy, V-a. 2 hrs.	Histology Recitation 2 hrs.	Anatomy Recitation	Chemistry Laboratory 3 hrs. D. & P.	Physiology Laboratory 2 hrs. M. & D. Pharmacy V-a. 2 hrs.
11 A. M.						
1 P. M.	Organic Chemistry Lecture M. Pharmacy I-a.	Dental Technique D. 3 hrs.	Practical Anatomy M. & D. 2 hrs. Pharmacy I-a.		Organic Chemistry Lecture M. Pharmacy I-a.	Practical Anatomy M. and D. 2 hrs.
2 P. M.	Materia Medica M. D. & P.	Chemistry Laboratory 2 hrs. M. Pharmacy I-b.	Materia Medica M. D. and P.	Chemistry Laboratory 2 hrs. Micro-Botany P.	Materia Medica M. D. & P.	
3 P. M.	Practical Anatomy M. and D. 2 hrs.	Physiological Chemistry M. & D. 3 hrs.	Physiological Chemistry M. & D. 3 hrs.		Practical Anatomy M. & D. 2 hrs.	
4 P. M.				Histology Laboratory 2 hrs. M and D.		Histology Laboratory M. and D. 2 hrs.
5 P. M.	Descriptive Anatomy M. and D.				Descriptive Anatomy M and D.	

SOPHOMORES.

Hour	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
9 A. M.	Physiology Laboratory 3 hrs. M. Operative Dentistry	Bacteriology M.-3 hrs. Dental Anatomy & Pathology-D.	Physiology 3 hrs. Prosthetic Dentistry D.	Bacteriology 3 hrs. Operative Dentistry	Anatomy Recitation 2 hrs. Dental Anatomy and Pathology	Prosthodontic Dentistry
10 A. M.	Physiology Laboratory D.	Dental Laboratory D. Pharmacognosy I. P.-2 hrs.	Physiology D. Pharmacy II. D.	Dental Laboratory Pharmacy V.-b. 2 hrs.		Urinalysis, Bacteriology D.-2 hrs.
11 A. M.					Hygienic Laboratory.	Anatomy. 2 hrs.
1 P. M.	Organic Chemistry Lecture D. and P.	Physical Diagnosis	Therapeutics Recitation M., D. and P. 2 hrs.	Embryology M.	Organic Chemistry Lecture D. and P.	Embryology M.-3 hrs. Bacteriology 2 hrs.
Dental Infirmary open daily, except Sundays and holidays, 10 to 5 P. M.						
2 P. M.	Hygiene	Chemistry Laboratory D. & P.-2 hrs.		Organic Chemistry Laboratory D. & P.	Crown & Bridge Work D. Pharmacy II.	
3 P. M.	Therapeutics M., D. & P.		Bandaging.		Therapeutics M., D. & P.	
4 P. M.	Descriptive Anatomy M. & D.		Descriptive Anatomy M. & D.		Descriptive Anatomy M. & D.	
5 P. M.						

JUNIORS.

Hour	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
9 A. M.	Surgical Clinic M. Operative Dentistry D.	Surgical Clinic M. Dental Anatomy and Pathology D.	Lecture Orthopedics Surgical Clinics Prosthetic Dentistry	Surgical Clinics Operative Dentistry	Surgical Clinics Dental Anatomy and Pathology D.	Surgery Recitation Prosthetic Dentistry D.
10 A. M.	Dental Laboratory Pharmacy V-c. 2 hrs.	Surgery Lecture Until 1-1-13. M. & D. Dental Laboratory	Clinical Microscopy M. 2 hrs. Dental Laboratory Pharmacy V-c. 2 hrs.	Surgery-till 1-1-13. Lecture Dental Laboratory	Clinical Microscopy M.-2 hrs. Dental Laboratory D. Pharmacy P.	Obstetrics Clinic M. Dental Laboratory D. Pharmacy III-b.-P.-10-12.
11 A. M.	Practice Recitation	Surgery-after 1-1-13. Lecture M. Pharmacy III-a. & b.		Surgery-after 1-1-13. Lecture Pharmacy III-a. & b.		
12	Dispensary Clinics	Dermatology Clinic M.	Dispensary Clinics M.	Dispensary Clinics M.	Dermatology Clinic M.	Dispensary Clinics M.
1 P. M.	Physical Diagnosis M.	Physical Diagnosis M. Dental Technique D.	Electro-Therapy M. Pharmacy IV-a.	Physical Diagnosis M.	Crown & Bridge Work D. Dispensary Work P.	
2 P. M.	Dental Infirmary Dermatology M. Micro-Botany-2 hrs. P.	Dental Infirmary Obstetrics Lecture M. Dispensary Work-P.	Dental Infirmary Pediatrics Lecture M. Dispensary Work-P.	Dental Infirmary Practice of Medicine M.	Dental Infirmary Pathology 4 hrs. Till Feb. 1.	Dental Infirmary Obstetrics Lecture M. Dispensary Work-P.
3 P. M.	Pathology 8 hrs. Till Feb. 1.	Obstetrics Clinic-Section M.	Practice of Medicine Lecture M.	Medical Zoology M.		Medical Zoology M.
4 P. M.			Pathology 2 hours. Till Feb. 1.			

SENIORS.

Hour.	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
9 A. M.	Surgical Clinic	Surgical and Gynecology Clinic	Orthopedics Lecture Till Feb. 1.	Surgical and Gynecology Clinic	Surgical and Orthopedic Clinic	
10 A. M.	Orthopedic Clinic	Surgery Lecture	Ward Clinic in Surgery and Orthopedic Surgery	Surgery Lecture		Gynecology and Genito-urinary Clinic
11 A. M.	Ward Work in Practice. 2 hrs.		Ward Work in Practice 2 hrs.	Genito-Urinary Diseases Lecture	Ward Work in Practice 2 hrs.	Minor Surgery
12	Mental Diseases Lecture M.	Practice Amphitheatre Clinic		Gynecology Clinic		Gynecology Clinic
1 P. M.	Nervous and Mental Diseases Clinic	Ear, Nose and Throat Lecture	Gynecology Lecture	Physical Diagnosis	Gynecology Lecture	Ear, Nose and Throat Clinic
2 P. M.	Practice Recitation	Medical Jurisprudence Lecture	Eye Lecture Till Feb. 1.	Pediatrics Clinic	Practice of Medicine Lecture	Eye Lecture Till Feb. 1.
3 P. M.	Experimental Surgery	Practice of Medicine Lecture	Eye Clinic		Experimental Surgery	Eye Clinic

M—Medical.

D—Dental.

P—Pharmacy.

Post-Mortems as often as possible.

**Recommendation for Admission to the Medical College
of Howard University**

FROM

(Name of School)

This is to certify that

(Name of Candidate.)

who { *graduated from }
 { left } this school on the day

of.....19....., is a person of good moral character, has completed in a satisfactory manner the following requirements for admission to the Medical College of Howard University, as given herewith, and is hereby recommended for admission. The amount and quality of h..... work in the several subjects required are given in the following table:

STUDIES PREPARATORY TO THE MEDICAL COURSE.

The required subjects are given first, but the extent to which the other studies have been pursued must be indicated.

A unit equals one subject pursued for not less than four periods a week throughout a school year; a count equals a subject pursued for one period a week throughout the school year.

(In cases where the study was not pursued in this school, the pertinent facts are stated in the column of remarks.)

STUDIES.	No. Yrs.	No. Hrs. per week	Stand- ing	Units or Counts	Text- books	REMARKS
GROUP I. (3 Units)						
English Grammar						
Rhetoric and Composition...						
Reading of Classics.....						
GROUP II. (2 Units)						
United States History ..						
General History.....						
Greek and Roman History..						
English History..						
GROUP III. (3 Units)						
Algebra.....						
Plane and Solid Geometry...						
Plane Trigonometry						

* A stroke is to be drawn through the words which do not apply to the candidate

GROUP IV.						
Physics—1 unit						
Biology—1 unit						
Zoology—1-2 unit						
Botany—1-2 unit						
Chemistry—1 unit.....						
GROUP V.						
(2 units in German or French)						
German Grammar						
German Composition.....						
German Authors						
French Grammar.....						
French Composition.....						
French Authors.....						
GROUP VI. (2 Units)						
Latin Grammar.....						
Prose Composition.....						
Caesar.....						

SUBJECTS NOT REQUIRED, BUT CONCERNING WHICH INFORMATION IS DESIRED

English Literature.....						
Civil Government.....						
Physical Geography.....						
Geology.....						
Astronomy.....						
Cicero.....						
Virgil.....						
Ovid.....						
Greek Grammar						
Greek Composition						
Xenophon.....						
Homer... ..						

(Signature of Principal).....

Date.....

Mail to Dr. W. C. McNeill, Secretary, Cor. Fifth and W Streets N. W.,
Washington, D. C.

THE DENTAL COLLEGE.

(This College is a member of the National Association of Dental Faculties.)

Howard University Dental College offers unexcelled advantages to young men and women for the study of dentistry.

While great attention is paid to the teaching of technic and theory, practical instruction so necessary to develop operative skill and dexterity and quick diagnostic judgment is not slighted.

Faculty.

REV. STEPHEN M. NEWMAN, A. M., D. D.,
President of the University.

EDWARD A. BALLOCH, A. M., M. D., DEAN, 1511 Rhode Island Avenue, N. W.,
Professor of Oral Surgery.

ANDREW J. BROWN, D. D. S., VICE DEAN, 1326 L Street, N. W.,
Professor of Operative Dentistry and Operative Technic.

W. C. MCNEILL, M. D., SECRETARY.

CLARENCE H. HOWLAND,
Emeritus Professor of Dental Anatomy and Pathology.

H. PORTER DAVIS, D. D. S., 1922 Third Street, N. W.,
Professor of Prosthetic Dentistry, Dental Metallurgy and Prosthetic Technic.

FRED P. BARRIER, D. D. S., 1200 U Street, N. W.,
In charge of Dental Laboratory.

AMBROSE E. GASKINS, D. D. S., 1201 T Street N. W.,
Demonstrator in Dental Infirmary.

JOHN R. FRANCIS, JR., D. D. S., 1800 Ninth Street, N. W.,
Demonstrator in Dental Infirmary.

THOMAS W. EDWARDS, 1205 Linden St., N. E.
Demonstrator in Dental Infirmary.

DANIEL S. LAMB, A. M., M. D., 2114 Eighteenth Street, N. W.,
Professor of Anatomy.

.....
Professor of Physiology.

PAUL BARTSCH, M. S., Ph. D., 2416 Fourteenth Street, N. W.,
Professor of Histology; Director of Physiologic and Histologic Laboratories.

MARCUS WARD LYON, JR., M. S., M. D., 48 V Street, N. W.,
Professor of Bacteriology and Director of Bacteriologic Laboratory.

EDWARD D. WILLISTON, A. M., M. D., 1507 S Street, N. W.,
Professor of Medical Jurisprudence.

HERBERT CLAY SCURLOCK, A. B., M. D., 428 College Street,
N. W.,

Professor of Chemistry.

CHARLES I. WEST, M. D., 924 M Street, N. W.,

Associate Professor of Anatomy.

JOHN W. MITCHELL, M. D., Phar. D., 817 T Street, N. W.,

Professor of Materia Medica and Therapeutics.

ALBERT RIDGELEY, M. D., 1543 M Street, N. W.,

Associate Professor and Demonstrator of Anatomy.

CARROLL A. BROOKS, M. D., 1321 T Street, N. W.,

Associate Professor of Physiology.

JAMES F. JOHNSON, A. M., M. D., 208 O Street, N. W.,

Assistant Demonstrator of Anatomy.

WILLIAM H. WILSON, M. D., 1835 Vermont Avenue, N. W.,

Assistant Demonstrator of Anatomy.

Requirements for Admission to the Dental College.

(The candidate may be admitted to the Dental College upon presenting a diploma or equivalent certificate from an accredited high school or kindred educational institution, or upon passing a satisfactory examination. The diploma must be signed by a superintendent of schools or the principal of a high school, or other responsible school officer. A certificate showing that a candidate has been graduated from an accredited high school, or from a school giving an equivalent course, signed by a city or county superintendent of schools, or by a State superintendent of public instruction, will be accepted as the equivalent of a diploma. A candidate who does not present a diploma or certificate must take an examination before a state superintendent of public instruction, or his deputy, and bring a report showing that the candidate has a preliminary education equivalent to that to be obtained in an accredited high school.

This School will receive no student in its regular course who is not present within ten days after the opening day of the session in each year, or in case of necessary delay, by reason of illness properly certified by the attending physician, within twenty days after the opening day, at option of the Faculty.

Students registering agree thereby to accept the discipline imposed by the Faculty.

It is desirable that students register early.

Admission to Advanced Standing.

Students who present certificates from other recognized dental schools covering subjects required in this College, will be accredited with such studies if the credentials are satisfactory to the professors in the respective departments, but when admitted to the third year,

the candidate must do one full year's work in this School. Graduates of recognized medical colleges are credited with one year of time.

Course for Degree of Doctor of Dental Surgery.

The course covers three years. The year begins on the twenty-fifth of September and closes on Commencement Day of the University. There are thirty-two weeks of actual instruction given, six days in each week.

Students can be received only during the first ten days of the first semester.

Methods of Instruction.

The studies of the course are grouped by departments; the work of each department is graded from the more general and fundamental subjects to the more specialized and advanced.

The work in the departments is planned with reference to that of other departments, and the greatest care is taken that the whole shall be so correlated that the student in taking up a new subject will find himself prepared by work done in other departments.

The course of study pursued in each year is different from each other year.

Curriculum.

The curriculum comprises Anatomy, Anesthesia, Physiology, Histology, Materia Medica, Therapeutics, Chemistry, Toxicology, Metallurgy, Oral Surgery, Operative and Prosthetic Dentistry, Dental Technic, Pathology, Bacteriology, Hygiene, Orthodontia and Medical Jurisprudence.

The course is three years; the studies of the first year are the same as those of the medical students of the same year, with the addition of Operative Technique. During the second year the students must attend all the subjects of instruction if they wish to graduate at the end of the third. They will be examined at the end of each year in the corresponding branches; should they fail to pass or to be examined in any branch, they must continue attendance on the same during the ensuing year.

Requirements for Graduation.

The degree of Doctor of Dental Surgery is conferred upon those candidates not less than twenty-one years of age, of good moral character, who have completed satisfactorily the required course of study and have passed the examinations therein, and have completed all technical and practical laboratory and clinical requirements. No student will be recommended for a degree who has not been a member

of this School during the whole of the last or senior year. The standing of students is based upon examinations, monthly reports of attendance, quizzes and infirmary practice.

No student will be recommended for a degree until all financial obligations to the University shall have been discharged.

Scholarships.

The Faculty of the School of Medicine has granted one free scholarship in the Dental College to graduates of the M Street High School and the Armstrong Manual Training School, Washington, D. C. The recipients of these scholarships are to be named by the Faculty Council of this College upon proper recommendation.

Special Lectures.

At stated times important special lectures will be given. The object of these lectures is to afford the student an opportunity to attend special courses given by dental practitioners who are eminent in their several departments.

These lectures which are accompanied, when desirable, by clinical demonstrations, add greatly to the value of the regular course.

Lectures, Etc.

What has already appeared under this heading in regard to the Medical College will apply in the corresponding branches to the Dental College.

Course of Study.

The course of study is graded, and will extend over three years.

First Year.

The first year instruction is in Anatomy, Dental Anatomy, Physiology, Chemistry, Chemical Laboratory, Histology, Materia Medica, Physiological Laboratory, Operative and Prosthetic Technics, Anatomical Laboratory, Physiologic Chemistry.

Second Year.

In the second year instruction is given in Dental Chemistry, Metallurgy, Bacteriology, General Pathology, Dental Pathology, Prosthetic Dentistry, Dental Therapeutics, Operative Dentistry, Anatomy, Physiology, Crown and Bridge Work, Infirmary and Prosthetic Laboratory.

Third Year.

The senior course of instruction consists of a review of the subjects of the second year, Oral Surgery, Dental Medicine, Orthodontia, Crowns and Bridges, including Porcelain Work, General Anesthesia, Operative and Prosthetic Dentistry, Radiography, Electricity, Dental Jurisprudence and Hygiene.

ANATOMY.

Professor D. S. Lamb, Dr. Ridgeley and Assistants.

Dental students receive the same course as the medical students.

The equipment of the Department of Anatomy is new and very complete. The large Anatomical Laboratory is well lighted, the ventilation is good. The floor is waterproof, and has such drainage arrangements that it can be flooded with hose and kept clean and sweet. On payment of a small deposit, bones may be taken for home study.

CHEMISTRY.

Professor Scurlock and Assistants.

The Chemical Laboratories are large, well ventilated and complete in every respect. One laboratory is devoted to the General Chemistry and Qualitative Analysis of the year, and other practical applications of chemistry of interest to dental students. In addition to the main laboratories, there are facilities and apparatus for testing the physical properties of metals, amalgams, etc., and an oven covered with a hood for carrying off the fumes, and equipped for alloying, assaying and refining.

First Year.

(a) General and Inorganic Chemistry—Lectures and Recitations. Four hours a week.

(b) General Laboratory—Illustrative experiments in general and inorganic chemistry. The metals and their compounds. Qualitative chemical analysis of unknown mixtures, particularly bases and alloys. Two hours a week for the term.

Second Year.

(c) Organic Chemistry—Lectures and Quizzes. Four hours a week.

(d) Laboratory—Elementary quantitative chemical analysis and illustrative experiments in Organic Chemistry. Two hours a week.

HISTOLOGY.

Professor Paul Bartsch and Assistants.

The department is provided with a large laboratory, furnished with reagents, lockers, microscopes, electric lights, and other conveniences

for preparation of specimens and microscope study. It is also provided with a stereopticon, reflectoscope and projecting microscope for demonstration purposes. Adjoining this large laboratory, there is a professor's study, and preparation laboratory with a photographic room fully equipped with all necessary apparatus.

The laboratory classes are usually divided into sections. This work has been greatly aided by a large collection of lantern slides from photo-micrographs and framed photographic prints; and by a large histological museum containing 50,000 microscopic slides sufficient in number on any given subject for a full section of the class, illustrating not only all the ordinary soft tissues, but also the peridental membranes, dental pulp, periosteum, and ground sections of the teeth. These microscopic slides and sections, together with those stained and mounted by students, are used by the classes for purposes of study.

DENTAL HISTOLOGY.

Professor Bartsch and Assistants.

There are two lectures and four hours of laboratory work per week throughout the term.

Under this head, the instruction includes the minute anatomy of the tissues of the teeth, and their histologic elements, together with a thorough course on embryology of the mouth. Students of the first and second years devote a portion of each session to general and special dental histology, as taught in the histologic laboratory.

Many of the lectures in this department are illustrated by lantern slides, in most instances reproduced by numerous dissections from the actual subject, in the preparation of which the incumbent of the chair has made a special effort to fully cover the branches under consideration.

PHYSIOLOGY.

The Dental Students receive the same lectures, etc., that the Medical Students do. In the lectures, special attention will be given to all points bearing upon the teeth, saliva and nerves concerned in mastication. The action of digestive ferments will also be demonstrated before the class. The lectures are supplemented by experiments and demonstrations.

MATERIA MEDICA AND THERAPEUTICS.

Professor Mitchell and Assistants.

There will be three hours of lectures and recitations a week throughout the session.

The lectures upon Materia Medica will embrace all the new additions and latest discoveries in this department of dentistry and complete dental pharmacology, with derivation, nature, physiological

action, dose, and the antidote or antagonist of each drug, together with a practical knowledge of prescription writing for the intelligent administration of the same. This will fill a long-felt want among students of dentistry, who, as a rule, are not taught the general and systematic administration of medicines and the method of writing prescriptions for their use. Students are taught to write upon the board practical prescriptions for treatment of definite pathological conditions.

BACTERIOLOGY.

Professor Lyon and Assistants.

Bacteriology is an important part of the junior year. It is presented especially in its relation to dental pathology and dental practice. The student is familiarized with the general principles of the subject, with the nature of these organisms, the place they occupy in nature, their physiological processes, how and where they grow, how they live, what they do, and how they produce disease.

The micro-organisms of the human mouth receive special attention. They are collected from patients in the infirmary and from members of the class in the lecture room, thus pointing out their natural habitat and the appearances produced by their natural growth. These are cultivated in the various culture media, illustrating the growths as they appear to the naked eye in such ways as to illustrate the practical necessities of aseptic operating in dentistry, when and how dangers of infection arise, and how to avoid them. Species will be separated by plate culture, and pure growths of varieties obtained directly from the mixed growth gathered from patients and students. The forms of growth as they appear to the naked eye on the various culture media and the microscopic character of the organisms, methods of staining, mounting, etc., are studied.

PROPHYLAXIS AND HYGIENE.

Professors M. W. Lyon, Jr., and N. D. Graham.

This institution and its teachers have recognized for sometime that Oral Hygiene and Prophylaxis are important factors in the preservation of teeth. Much of the best thought and research of the profession today is toward this modern teaching of Dental Surgery. The scope of this course will be broad and comprehensive, a large clinic affording full opportunity for a thorough understanding of pyorrhea alveolaris, gingivitis and oral prophylaxis from a practical viewpoint. Special features covering these important subjects will be given. The most advanced treatment, will be followed with the student and his patient, under the supervision of the instructor of this department, the object being to better prepare our graduates to specialize in this branch.

DENTAL ANATOMY AND OPERATIVE TECHNIC.

Dental Anatomy, the Anatomy of the Human Teeth, is taught in the *first semester*, and Operative Technic is taught in the *second semester*,

The first two weeks are given mostly to the study of dental nomenclature, or the study of the names of things with which the student must become familiar in the course of his dental studies. Then descriptive human dental anatomy is taken up and the forms and surface markings of each tooth studied. This part of the work is illustrated by models, enabling the lecturer to locate every detail of form and of surface markings upon the teeth so that they may be accurately understood.

After a lecture and recitation upon a particular tooth, the student selects several of that denomination from a large number of promiscuous teeth and cuts at least one longitudinal and two transverse sections for the study of the pulp chamber and root canals, together with their relations to the external surfaces of the tooth. This general plan is carried out with each tooth of the human mouth.

In order that tooth forms may be more perfectly impressed upon the mind, during this study, and be of use in shaping teeth, artificial crowns and fillings in teeth in after-practice, a tooth of each class, as the incisors, cuspids, bicuspid and molars, is made by each student, first in clay then in bone or ivory, representing the actual size and form of the tooth.

METALLURGY.

Professor Davis.

This subject will be taught during the senior year—one lecture each week—in which those metals used in dentistry will be most prominently considered, as iron, steel, copper, zinc, tin, lead, aluminum, silver, gold, platinum, etc. The art of soldering, characteristics of the various metals, the compounding of solders, fluxes, alloys, etc., will be included in this course and practically demonstrated in the laboratory.

ORAL PATHOLOGY.

With this important branch will be thoroughly taught, in its general relation to the human system, by the lecturer on Pathology, the special features pertaining to dentistry, which will be minutely treated in a course of lectures continuing through the middle and senior years, two hours each week, and careful attention bestowed upon such pathologic conditions and their remedial agents as will best fit the dental student for actual practice.

The possible infantile disturbances during dentition; the pathologic relations of the teeth to the other parts of the system; pathologic actions involving the tissues of the teeth—diseases of the dental pulp, pericementitis, alveolar abscess, excementosis and dental caries; the bacterial life processes instrumental in the causation of dental caries, and their classification; pyorrhea alveolaris; morbid growth found in the oral cavity; empyema of the antrum; necrosis and numerous oral conditions, will be fully discussed and explained; due consideration

will also be given to the diagnosis of syphilitic conditions in the oral cavity, the treatment of shock, syncope, hysteria, etc., conditions which oftentimes confront the busy dentist, and upon the knowledge of which an intelligent and broad practice must be founded.

PHYSICAL DIAGNOSIS.

With the progress that has been made in all the departments of the practice of dentistry, it becomes not only desirable, but necessary that the practicing dentist should be able, not only to make such an examination of his patient as may enable him to determine as to the advisability of the use of an anesthetic, but he should also know the conditions which should influence him in the selection of the anesthetic for each individual case.

This with a knowledge of the physiological action of the individual anæsthetics and the proper remedies and procedure to be resorted to, in case of threatened or actual failure of the vital functions, will prepare the anæsthetist to take such care of his patient as the nature of the case may require.

It has therefore been considered advisable to give a course of lectures, with such clinical instruction as may be necessary to cover the subject fully.

ELECTRICITY AND X-RAY.

Professor Scurlock and Assistants.

The lectures in this course will embrace a study of the principles underlying the use of the current in its practical application to dentistry; the construction of cells and their grouping to form batteries; the direct and alternating currents, when and where they can be used; methods of controlling the current; construction of motors and how to use them; the use of the current for lighting and heating purposes, either on a large or small scale, etc.

ANAESTHESIA.

Geo. W. Davis, M. D.

Will be presented in detail in lectures, experimentally upon animals and in clinical illustrations, embracing all the agents used for the mitigation of pain. Nitrous Oxide, somnoform and local Anesthetics will be exhibited daily in the extracting clinic, and ether and chloroform in the surgical clinic.

It is especially intended that this course of instruction shall embrace those conditions which the dentist is likely to meet with in his practice, not omitting careful attention to the minor surgical operations which the dentist should ordinarily do for his patient.

PORCELAIN.

Porcelain is attracting more and more attention. It is the more artistic method of restoring teeth or parts of teeth. Cavities in the natural teeth can be filled with porcelain inlays, which cannot be detected.

Students of this school will be expected to attain a high degree of proficiency in the manipulation of porcelain. The College is equipped with furnaces for continuous gum work and machines for casting of gold inlays. Students are taught how to construct inlays by the use of gold and platinum matrices, the different blending of colors, and also a complete course of lectures is given covering the entire subject.

ORAL SURGERY.

Professors Balloch and Curtjs.

Two lectures per week, one quiz and one clinic of two hours per week are given during the first semester. The course embraces instruction in the general principles of surgery and their practical application to pathological conditions occurring about the mouth and face, giving special attention to diagnosis and recognition of conditions requiring surgical interference. It includes the extraction of teeth, with special attention to the difficulties encountered in cases of malposed and impacted teeth, the surgical treatment of facial defects and blemishes, the surgical treatment of alveolar abscesses, the treatment of caries and necrosis of bones, fractures of the jaw, including the various devices and method of fixing and retaining fractured and displaced bones in position. The treatment of diseases of the antrum of Highmore, the diagnosis and removal of tumors occurring about the mouth and face, the excision of nerves in the surgical treatment of persistent neuralgias, etc. The whole clinical course is an exemplification of aseptic and antiseptic surgery in its adaptation to, and uses in, the various phases of the surgical treatment of both accident and deliberate operative cases.

PROFESSIONAL ETHICS AND DENTAL JURISPRUDENCE.

Professor Williston.

Occupies one lecture per week during the first semester. It consists of a brief statement of the more important principles of morals, or the relations of man to his fellow man in social life, in business, the fellowship that should exist between men, and the duties of the individual to the general public. This will occupy considerable of the earlier part of the course. It will be followed by an exposition of the special duties and moral obligations of professional men to their patients, toward their fellow practitioners, and toward the public, for upholding the honor and dignity of the profession. The more im-

portant differences between the profession and business or manufacturing pursuits will be explained with reference to the ethical standards that are right and appropriate in each. The Professors and Faculty earnestly desire that students understand and appreciate the high standard of moral quality and devotion to duty which ought to characterize all professional men.

OPERATIVE DENTISTRY.

Professor Brown and Assistants.

The course of lectures in the branch of Operative Dentistry includes the consideration of the preparation of all forms of cavities, of different filling materials—plastics, gold and porcelain—the methods employed in the preparation and manufacture of each, as well as how and when each is used. Also a description of all appliances and instruments used in Operative Dentistry, and all new and modern inventions, discarding all those which are useless and antiquated. Models, patterns, diagrams, lantern slides and other illustrations, help to make the subject plain and lucid, yet complete and practical.

The practical work in the branch has been arranged so that the course is systematic, progressive and graded.

There are two lectures twice a week throughout the session, which are augmented by practical and clinical work.

ORTHODONTIA.

Professor Brown.

This subject is taught during the middle and senior years.

Beginning with normal occlusion, the lectures take up the different classes of malocclusion, special attention being given to diagnosis and treatment. This is followed by several lectures on retention, followed by a course in model and appliance making.

In the senior year, the instruction is mainly clinical, and is given at the individual chair in the Infirmary.

PROSTHETIC DENTISTRY.

Professor H. P. Davis, D. D. S.

Frederick P. Barrier, D. D. S., in charge of Laboratory.

Prosthetic Dentistry will be thoroughly taught in every detail, both by lectures and clinical demonstrations, each lecture as far as practicable, being followed by clinics, so that students may have a thorough appreciation of the teaching practically applied.

The laboratory is spacious, well lighted and ventilated, and thoroughly equipped for the practical teaching of this most important branch of dentistry. It is under the direct personal supervision of the professor, assisted by a competent demonstrator and assistant.

The course embraces the proper fitting up of a dental laboratory, the use of tools, the preparation of the mouth for dentures, methods of taking impressions of the mouth and articulations, the materials

used, their composition and manipulation, as well as the preparation of models for dentures made on the various bases. The anatomical and artistic arrangement of the teeth, viz. in mastication, enunciation, facial contour, etc., will be most carefully considered; formulae for compounding bodies and enamels used in the manufacture of artificial teeth and continuous gum; vulcanite and celluloid, their compositions and methods of working, including all varieties of repairing; fusible metal bases; the construction of metal plate work in gold, silver, platinum, aluminum, etc.; making dies and counter-dies from the different materials used; swaging and fitting of plates, and of soldering, bending and fitting of clamps; combination plates of metal and vulcanite or celluloid; the mechanical treatment of cleft palate, including the several methods of constructing vela and obturators; ceramic dentistry, covering continuous gum work, the different methods of fusing, furnaces, bodies, enamel, etc., will be thoroughly and practically covered in every detail.

The technic course extends through all the three years, covering a complete training in prosthetic technic, and carefully preparing the student for practical work, including the taking of impressions, articulations, preparations of models, the construction of dentures on the different bases, etc. That time may be utilized and the student receive personal instruction, the classes are subdivided into sections. Students are at once assigned to a section with competent demonstrators, and given a systematic and practical course. Before passing from one class to another, the student is obliged to obtain from the demonstrator in charge a certificate of qualification, which, together with the work performed, will be finally passed upon by the professor in charge of the department.

CROWN AND BRIDGE WORK.

Preparation of the roots of extracted teeth for bands, fitting bands, carving cusps in plaster and other materials, making dies, swaging cusps, soldering cusps to bands and finishing.

Making porcelain-faced crowns, conforming bands and constructing copes, grinding and backing, facing and fitting to cope, investing, soldering and finishing, constructing various forms of porcelain and metal dummies, previously constructed and forming bridges, investing, soldering and finishing.

Dental Infirmary.

Frederick P. Barrier, Superintendent.

Ambrose E. Gaskins, D. D. S., Senior Demonstrator.

John R. Francis, Jr., D. D. S., Demonstrator.

Thomas W. Edwards, D. D. S., Demonstrator.

The Dental Infirmary and Laboratory have been moved to a larger building, with 6,000 square feet of floor space, which is well lighted,

ventilated and gives increased facilities. New dental chairs and laboratory apparatus have been added so that the equipment of these departments compares favorably with that of the best colleges, and is especially designed for the successful teaching of modern dentistry. The opportunities offered students for special preparation to enter private practice are not exceeded by any other college.

The Infirmary is open the year round, daily, except Sunday, from 10 A. M. to 5 P. M. It is in charge of educated and experienced demonstrators. Here are taught in practice the theories set forth by the three chairs. Abundant clinical material is always at hand, and students are required to perform all operations in ordinary practice. No student is excused from this service. The outfit of the Dental Infirmary and of the laboratory is complete.

Students furnish their own instruments, except forceps, lathes and vulcanizers. Dental engines can be bought for from \$15.00 to \$36.00 apiece. A list of the necessary instruments will be furnished to first-year students, the cost of which will not exceed \$20.00.

Special pains will be taken to make the course of teaching practical and at the same time thorough.

No student can enter the senior class unless he has the certificate of the demonstrator and professor that he has attended the regular afternoon clinics during the session.

The fact that the immense hospital of the University, with all its wealth of instruction, is free to the dental classes, and that this hospital is at the very door of the College, makes the opportunity for study unsurpassed.

All friends of the College are requested to add to the collection of curiosities and abnormal specimens now accumulating. Dentists are reminded that the abnormal specimens lying idle in their cabinets may be of great benefit to the student.

THE PHARMACEUTIC COLLEGE.

Faculty.

REV. STEPHEN, M. NEWMAN, A. M., D. D.

President of the University.

EDWARD A. BALLOCH, A. M., M. D., DEAN, 1511 Rhode Island Avenue, N. W.,

J. HERVE' PURDY, Phar. D., Vice-Dean, 2612 University Place.
N. W.,

Professor of Pharmacy, and in charge of Pharmaceutic Laboratory.

W. C. McNEILL, M. D., SECRETARY.

EDGAR B. KEEMER, Phar. C.,

Professor of Theory and Practice of Pharmacy.

.....
Professor of Physiology.

JOHN W. MITCHELL, M. D., Phar. D., 817 T Street, N. W.,

Professor of Materia Medica and Therapeutics.

HERBERT CLAY SCURLOCK, A. B., M. D., 428 College Street,
N. W.,

Professor of Chemistry and Urinalysis.

CARROLL A. BROOKS, M. D., 1321 T Street, N. W.,

Associate Professor of Physiology.

MARCUS WARD LYON, JR., M. S., M. D., 48 V Street, N. W.,

Professor of Microscopy and Bacteriology; Director of the Bacteriologic Laboratory.

Advantages.

It is of great advantage to the students of pharmacy to attend a college where medicine, dentistry and pharmacy are taught simultaneously. Students of pharmacy have the benefit of thus associating with a large number of students in annual attendance, coming from all parts of the world, and, as students comprising the different schools are considered on an absolute equality, all have the access to the various clinics, etc., thus affording the students of pharmacy an exceptional opportunity of association with students pursuing studies so intimately related as the professions of pharmacy, medicine and dentistry.

Requirements for Admission.

Applicants for admission must present a certificate of good moral character and fitness to enter upon the study of Pharmacy, shall be at least seventeen years of age, and shall have had eight years of grammar school work and one year of high school work or equivalent, which shall include one year's study in Latin.

Entrance Without Experience.

Students are not required to have drug store experience at entrance, and many students enter college who have never worked in drug stores. However, such experience is very desirable, and students are advised to acquire it before taking up the study of Pharmacy.

Scholarships.

The Faculty of the School of Medicine has granted one free scholarship in the Pharmaceutic College to graduates of the M Street High School and the Armstrong Manual Training School. The recipients of these scholarships are to be named by the Faculty Council of this College upon proper recommendations.

Course of Study.

Three years' study required before graduation.

The rapid progress made in the sciences and arts directly affecting the practice of Pharmacy, and the widely diversified knowledge now required to keep the pharmacist in touch with the best results of modern research, have made an extension of the course of instruction imperatively necessary. Students entering the College will therefore be required to take a course of study covering a period of three years before they will be entitled to graduation. Upon entry, students will be assigned to the first year class, from which, after passing a satisfactory examination, they will be promoted to the second year and senior classes at the end of the first and second scholastic years respectively.

Curriculum.

The curriculum comprises Chemistry, Toxicology, Urinalysis, Botany, Materia Medica, Pharmacy, Pharmacology, Microscopy, Physiology, Therapeutics and Bacteriology.

The course in pharmacy comprises three sessions, each of not less than thirty teaching weeks' duration.

Lectures, Etc.

Instruction will include didactic lectures, recitations and laboratory work.

What has already appeared under this heading, in regard to the Medical College, will apply in the corresponding branches to the Pharmaceutic College.

The student is admonished that his conduct in the laboratory, his punctual attendance in his classes and interest shown in his work, will have great weight with his instructors, while the lack of these qualities will certainly act against him.

Students will be required to have the necessary textbooks for each branch at the beginning of the session. It has been so arranged that only such books as are needed will have to be purchased at once.

Examinations.

Midwinter examinations are held during the week preceding the Christmas vacation. At the close of the session of the first year, students are examined upon the subject matter of the courses included in the year's work. Students failing in three of the subjects of either year are required to repeat the whole year's work and are not eligible for promotion. Students who are conditioned in the subjects of the first year, but who have passed in a majority of them, are examined on the subjects in which they have conditions at the opening of the succeeding session. Failing to pass then they are required to repeat the course in the subjects on which they are conditioned, in addition to the work of the other year.

Admission to Advanced Standing.

Students who have attended one or more courses of lectures at some other registered college of pharmacy will be admitted to the same class of this College upon presentation of evidence that they have successfully passed their examinations, to which they are entitled by reason of time spent and branches passed.

The final examinations, of which due notice will be given, are held during the two weeks preceding commencement. For admission to senior examinations, attendance upon three full courses of lectures and the laboratory courses is required.

Requirements for Graduation.

The diploma of the College confers the degree of DOCTOR OF PHARMACY (Phar. D.). Applicants for this degree must have had the required preliminary education, be of good moral character, have attended three full courses in this College, or the last course in the College and the first two in some other registered college of pharmacy; have passed satisfactory examinations and paid all fees as hereafter stated.

MATERIA MEDICA, THERAPEUTICS AND TOXICOLOGY.

Professor Mitchell and Assistants.

Three hours of lectures and recitations each week throughout the term for students of first year.

Students in the Pharmaceutic College receive the same course of instruction as given to the medical students. For additional information see page 20.

URINALYSIS.

Professor Scurlock.

The senior class in Pharmacy attends the course in Urinalysis which consists of lectures, recitations and laboratory work. Emphasis

is placed upon the laboratory practice, and students are required not only to learn how to make correct analysis, but also to interpret them correctly. From the hospital wards a great variety of specimens may be obtained, and each student is required to report upon several cases, the analytical work being checked by an instructor.

PHYSIOLOGY.

Senior students attend lectures in Physiology.

CHEMISTRY.

Professor Scurlock.

The course in chemistry requires two years. The first year's work considers general inorganic chemistry. In the class room a great deal of attention is given to equation writing and stoichiometry, in addition to the usual descriptive and theoretical matter included.

Laboratory: The laboratory work begins with simple glass work and the manner of setting up apparatus, which is followed by a selected set of experiments for the study of the elemental gases, the halogens, the non-metals and the metals. In the second semester, elementary qualitative analysis is given; beginning with the analysis of simple known solutions, it passes to more difficult and complex unknown solutions. Each student is required to analyze satisfactorily about twenty-five unknowns.

Chemistry I-a. General and Inorganic Chemistry. Lectures and quizzes. 2 hours. First year. Professor.....

Chemistry I-b. General and Inorganic Chemistry. Laboratory. First year 4 hours. Professor.....

Chemistry II-a. Organic Chemistry. Lectures and quizzes. 2 hours. Second year. Professor Scurlock.

Chemistry II-b. Organic Chemistry. Laboratory. 4 hours. Second year. Professor Scurlock.

PHARMACEUTIC BACTERIOLOGY.

Professor Lyon.

The course in Bacteriology for Pharmacy students is essentially the same as that for Medical students, but necessarily more elementary. Less stress is laid on the pathologic and clinical aspects of the subjects, and more attention paid to the various forms of sera and vaccines likely to be handled by pharmacists.

BOTANY.

Professor _____

Two hours of lectures and laboratory work once a week.

Instruction in Botany will begin on the first Wednesday in October, with the study of the elementary tissues of which plants are composed and the manner in which these tissues are built up into roots, stems,

leaves, flowers and fruits. Physiology and classification will then be considered, together with the collection and identification of fresh specimens. The second year class will be expected to examine and compare samples of botanical drugs, so as to become acquainted with their appearance under the microscope, as well as with the adulterations likely to occur in trade. The course will be copiously illustrated with lantern slides and microscope specimens. "Bessey's Essentials of Botany" will be the textbook used. Students some time during the course, must collect and prepare for preservation at least twenty-five specimens of our native plants.

MICROSCOPY.

Professor Keemer.

This College, recognizing the importance and value of Microscopy in the Practice of Pharmacy, has established a course in this branch and requires full attendance from middle and senior students upon the instruction given.

There will be two hours a week of both lectures and laboratory work.

The first part of the instruction will include the proper manipulation of the microscope, and such features concerning microscopic technique as will be most necessary to students of Pharmacy.

After these studies, the work will consist of the examination of plant tissue as illustrated in various vegetable substances most familiar to pharmacists. Special attention will be given to the structural characteristics by which one drug can be distinguished from another, as well as the detection and identification of the most common adulterants used.

The importance of a knowledge of starches as a means of identification will involve a study of the most common ones, and will constitute an important feature in the first part of the course. The various parts of the plant organism will then be studied microscopically, using drugs as the basis of material. This will require in some cases the use of fresh material, while in others dried samples will be used. Drugs commonly used in the powdered condition will first be examined in the entire state by means of sections, after which the powdered form will be studied.

PHARMACY.

Pharmacy I-a. Theoretical Pharmacy, consisting of a study of the principles and processes of Pharmacy, with demonstrations of the same; also the classification of Natural medicinal products, and galenical preparations. Lectures and recitations. 3 hours. First year. Professor Keemer.

Pharmacy I-b. Pharmaceutical Arithmetic, a systematic study of the different types of problems met with in the practice of Pharmacy. Recitations. 1 hour. Second semester of first year. Prof. Keemer.

Pharmacy II. Official Pharmacy of Inorganic Compounds, including the study of all official inorganic compounds and the more important

unofficial ones, with the identification and preparations of the same. Recitations. 2 hours. Second year. Professor Keemer.

Pharmacy III-a. Official Pharmacy of Organic Compounds, consisting of a study of all official organic compounds and their derivatives, including alkaloids, glucosides, and neutral principles. Recitations. 2 hours. First semester of third year. Professor Keemer.

Pharmacy III-b. Pharmacopoeia and National Formulary. A detailed review of the same. Recitations 2 hours. Second semester of third year. Professor Keemer.

Pharmacy IV-a. Prescription Reading and Incompatibilities. Lectures and recitations. 1 hour. Third year. Professor Keemer.

PHARMACOGNOSY.

Pharmacognosy I. A study of crude drugs, with special reference to identification, preservation, source and constituents. Recitations and Lectures. 2 hours. Second year. Professor Keemer.

PHARMACEUTICAL LABORATORY WORK.

First Year.

Professor Purdy and Assistants.

Two hours a week laboratory work for the session.

The laboratory work of the first year will supply the practical aid to the theoretical teaching.

The student will have the opportunity to become perfectly familiar with the apparatus used in pharmaceutical work and the manipulation of the same, thus giving him the technical training which contributes much to his success in the store. He will also be taught the care of apparatus, rules to be observed in laboratory work, recording results, etc. Instruction will be given upon the proper use of the Pharmacopoeia and manner of reading formulae.

Through a series of practically adapted lines of work, he will be enabled to master the different systems of weights and measures. After this, will be given the methods employed and apparatus used in determining specific weight and its application to pharmacy, specific volume, dilution, fortification and mixing of alcohol to produce any desired strength, the computation of averages and proportions in mixing to produce any desired values (or percentages). How to express, use and transpose formulae in parts by weight. Methods for measurement of heat, manner of testing and using thermometers, etc.

The remainder of the year will be devoted to the preparation of a series of official galenical preparations, enabling the students to judge quickly and accurately as to the best method of making these various pharmaceutical preparations.

Second Year.

Three hours a week for the session.

The laboratory course for the second year is a continuation of the preparation of official preparations, requiring various pharmaceutical

processes and operations such as the various methods of percolation, recovering of alcohol from exhausted drugs and weak percolates, determination of the percentage of alcohol in the recovered liquid, methods of regulating and modifying heat by use of baths, mode of conducting evaporation, principles involved in processes of distillation, different modes of sublimation, solution, decantation, colation, lotion, filtration, maceration, digestion and fusion.

The remainder of the year will be devoted to making such preparations as cerates, ointments, plasters, chartae, suppositories, powder masses, confections, pills, and the various excipients used in making them.

The laboratory work will follow as closely as possible the subject matter of the lectures, each student receiving individual attention and instruction.

Third Year.

Three hours four times a week for the session.

The laboratory course of this year is devoted to more advanced pharmacy than the preceding course and will have a special bearing in fitting the student for actual professional work.

Prescription dispensing and magistral pharmacy will be entered into more fully than during the former courses, for under this head comes the most important instruction in pharmacy, since it embraces the principal amount of labor in the store and calls for more tact, knowledge and skill than any other branch.

Practice will be afforded in applying the pharmacopoeial tests, that the students may become familiar with the methods of the identification and detection of impurities in official substances.

Special attention is given to assaying—The student will be thoroughly instructed in the pharmacopoeial methods of assaying drugs with the purpose of determining their values from both the mercantile and the scientific viewpoint.

In this part of the course, the student is made familiar with the practical application of pharmaceutical chemistry which will enable him to apply the various tests for the identification of alkaloids, glucosides, fixed and volatile oils, resins, gums, etc.

POST-GRADUATE SCHOOL AND POLYCLINIC
FOR MEDICINE AND DENTISTRY.

REV. STEPHEN M. NEWMAN, A. M., M. D., *President.*

EDWARD A. BALLOCH, A. M., M. D., *Dean.*

DANIEL S. LAMB, A. M., M. D., *Vice-Dean.*

WM. C. McNEILL, M. D., *Secretary.*

SURGERY:

E. A. BALLOCH, A. M., M. D., *Professor of Surgery and Clinical
SURGERY.*

A. M. CURTIS, A. M., M. D., *Professor of Clinical Surgery.*

WILLIAM A. JACK, M. D., *Demonstrator of Practical Surgery.*

OPERATIVE GYNECOLOGY:

WM. C. McNEILL, M. D., *Professor of Gynecology and Clinical Gyne-
cology.*

WILLIAM A. WARFIELD, M. D., *Professor of Abdominal Surgery.*

GENITO-URINARY DISEASES:

H. A. FOWLER, M. D., *Professor of Genito-Urinary Diseases.*

OPHTHALMOLOGY:

ROBERT SCOTT LAMB, M. D., *Professor of Ophthalmology.*

PRACTICE OF MEDICINE:

H. P. PARKER, M. D., *Professor of Practice of Medicine and Director
of Clinics.*

GEO. N. PERRY, M. D., *Professor of Pediatrics and Clinical Pediatrics.*

LABORATORY WORK IN CLINICAL MEDICINE:

PROFESSORS MARSHALL AND LYON.

PHYSICAL DIAGNOSIS:

NEIL F. GRAHAM, M. D., *Professor of Physical Diagnosis.*

PATHOLOGY:

COLLINS MARSHALL, M. D., *Professor of Pathology and Clinical Micros-
copy.*

LARYNGOLOGY, RHINOLOGY, OTOTOLOGY:

J. J. RICHARDSON, M. D., *Professor of Laryngology.*

ORTHOPEDIC SURGERY:

WILLIAM G. ERVING, M. D., *Professor of Orthopedic Surgery.*

EXTRACTION, ANESTHESIA AND PATHOLOGY :

*

OPERATIVE DENTISTRY AND ORTHODONTIA :

ANDREW J. BROWN, D. D. S., *Professor of Operative Dentistry; Operative Technic.*

PROSTHETIC DENTISTRY AND METALLURGY :

H. PORTER DAVIS, D. D. S., *Professor of Prosthetic Technic; Metallurgy.*

BACTERIOLOGY :

M. W. LYON, JR., M. D., *Professor of Bacteriology; Director of Laboratory.*

MENTAL AND NERVOUS DISEASES :

WILLIAM L. ROBINS, M. D., *Professor of Mental and Nervous Diseases.*

DERMATOLOGY AND SYPHILOLOGY :

HENRY H. HAZEN, M. D., *Professor of Clinical Dermatology.*

PHYSICAL THERAPEUTICS :

(Including Electro-Therapeutics, X-Ray Work, Finsen Light, etc.)

HERBERT C. SCURLOCK, A. B. M. D., *Professor of Chemistry and Urinalysis; Lecturer on Electro-Therapeutics.*

General Statement.

The Medical Faculty desires to inform the Alumni of the Medical and Dental Colleges of Howard University, and the profession throughout the country and the British West Indies, that the *sixth session* of the Howard University Post-Graduate School and Polyclinic will begin June 1, 1913, and continue six weeks for the Medical Course and four weeks for the Dental Course.

Requirements for Admission.

This School of Instruction is exclusively for members of the Medical and Dental professions whose credentials are satisfactory.

Instruction.

The instruction will be personal, thorough and exact. Every general practitioner who desires to keep abreast of the great advance in Medicine, Dentistry and Surgery should spend a few weeks each year in such a school. The opportunity for clinical instruction is unsurpassed, as the material will be obtained from the wards of the new Freedmen's Hospital and the outdoor clinics.

*The vacancies in the faculty will be filled before the beginning of the Session.

Course of Study.

There will be special courses in Surgery, Gynecology, Bacteriology, Pathology, Clinical Medicine, Physical Diagnosis, Ophthalmology, Otolaryngology, Rhinology, Mental and Nervous Diseases, Post-mortem Work, Physical Therapeutics—including Electro-Therapeutics, X-Ray Work, Finsen Light, etc.

The special course in Dentistry will consist of the latest approved methods in Operative and Prosthetic Dentistry, Extraction, Anæsthetics, general and local: Porcelain, Inlay Work, Gold Inlays, Crown and Bridge Work, Cavity Preparation, Contour Work, Color Blending, Matrix Formation and Cementation. Special attention will be given to the Anatomical Articulation and Artistic Arrangement of Artificial Teeth and a thorough course in Orthodontia.

Fees.

The fees will be as follows: For the entire Medical Course, \$100.00; for the entire Dental Course, \$40.00; Surgery alone, \$30.00; Gynecology alone, \$30.00; for any other one subject, \$15.00. These fees must be paid in advance. Breakage in laboratories at cost price.

For additional information apply to W. C. McNeill, M. D., Secretary, fifth and W Streets, N. W.

Textbooks Recommended.

May be obtained at the College at catalogue prices.

Anatomy.—Gray, Piersol, Morris, Eckley's or Cunningham's Practical Anatomy, Young's Hand-book, Black's Dental Anatomy, Davis' Applied Anatomy, Heisler's "Dissector."

Bacteriology.—Jordan, medical; Goadby, dental; Schneider, pharmaceutical. Reference Books: Park, Hiss & Zinsser, Herzog, McFarland, Muir & Ritchie, Sternberg.

Botany.—Bessey's Essentials, Gray's Manual.

Chemistry.—Sadtler and Coblentz, Perkins & Kippin Organic Chemistry, Simon's Manual of Chemistry, Scurlock's Laboratory Manual.

Clinical Microscopy.—Emerson, Simon, Wood.

Dental Anatomy.—Black, Broomell's Anatomy and Histology of Mouth and Teeth. Notes on Dental Anatomy, Technic, etc., Weeks.

Dental Pathology and Therapeutics.—Burchard, Gorgas' Dental Medicine

Dental Surgery.—Guilford's Orthodontia, Kirk's American Text-book, Garretson's Oral Surgery, Ivy's Anatomy and Oral Surgery.

Dentistry, Prosthetic.—Essig's American Text-book, Evan's Crown and Bridge Work, Richardson's Mechanical Dentistry, Hall's Chemistry and Metallurgy, Operative Dentistry, Black, Johnson, Kirk.

Dermatology.—Hyde, Shoemaker, Stellwagon, Jackson, Grindon and Gallaudet, Crocker, Norman, Walker, Pye-Smith, Schamberg.

Diagnosis.—Hare, Butler.

- Dictionary, Medical.*—Gould, Duane, Dunglison, Dorland.
Dietetics.—Pattee.
Electro-Therapeutics.—Kassabian, Tousey.
Embryology.—Heisler, McMurrich, Minot, Quain.
Genito-Urinary.—White and Martin, Lydston, Hayden.
Gynecology.—Gilliam, Montgomery, Ashton, Kelly, Clark's Gynecological Diagnosis.
Histology.—Piersol, Sterling, Boehm, Davidoff and Ferguson.
Hygiene.—Harrington, Bergey, Rohè.
Medical Jurisprudence.—Bray, Taylor, Reese.
Materia Medica.—White and Wilcox.
Nervous and Mental Diseases.—Church and Peterson, Potts; *for reference*, Oppenheim. *Psychiatry*—Mendel, Paton; *for reference*, Krafft-Ebing.
Obstetrics.—Edgar, Garrigues, Davis, Hirst, Jewett, Schaeffer's Hand Atlas, Saunder's Atlases, Webster, Williams.
Ophthalmology.—Fuchs, deSchweinitz, May, Nettleship, Jackson or Swanzy on the Eye.
Otology and Laryngology.—Kyle on Nose and Throat; Douglas or Grayson on Nose and Throat; Barnhill and Wales Modern Otology; Dench on the Ear; Packard on Nose and Throat; Gleason, Coakley.
Pathology.—Coplin, McFarland.
Pediatrics.—Carr, Fisher, Holt, Koplik.
Pharmacy.—Remington's Practical Pharmacy, U. S. Dispensatory, 19th ed., U. S. Pharmacopœia. *Works of reference.*—Army's Principles of Pharmacy, National Dispensatory, Coblentz's Handbook of Pharmacy, Casparai's Pharmacy, Scovill's Art of Compounding, National Formulary; Kirk's, Ruddiman's Incompatibilities, Culbreth's Materia Medica and Pharmacology, Steven's Arithmetic of Pharmacy.
Physiology.—Tigerstedt, Flint, Raymond, Brubaker, Kirke, Otts.
Practice of Medicine.—Osler, Anders, Tyson, *No compends*.
Surgery.—Park, Da Costa, Lexer-Bevan, Rose and Carless, Spencer and Gask, Brewer, McGuire's Principles of Surgery, Mumford.
Physical Diagnosis.—Cabot, Musser and Gerhardt.
Therapeutics.—Hare, Wood, Butler, Shoemaker, Potter.
Toxicology.—Wormley's Microchemistry.
Urinalysis.—Saxe, Ogden.
Text-books, Medical and Dental, for the first year cost about \$25.00; second year, \$30.00; third year, \$25.00; and fourth year, \$30.00. The cost of text-books for the course in pharmacy is about \$25.00.
Students must provide themselves with the necessary text-books, which must be the latest editions. Each professor will examine the students in his class and report anyone not having a text-book. Students without the necessary text-books will not be admitted to their classes until provided therewith. Reference books will be found in the Carnegie Library.

GRADUATES, 1912.**MEDICAL COLLEGE.****Doctor of Medicine—36.**

Allen, Herbert Augustus.....	Richmond, Va.
Bassette, Burl.....	Hampton, Va.
Blue, James T.....	Georgetown, Demarara, B. G.
Burwell, Hartford R., A. B., Shaw University.....	Raleigh, N. C.
Butler, Leonard C., A. B., Lincoln University.....	Baltimore, Md.
Carr, Arthur D.....	Athens, O.
Curtis, Arthur Leo.....	Washington, D. C.
Daniel, Samuel Blake.....	Newberry, S. C.
Deane, Robert Armistead.....	Richmond, Va.
Downing, Lylburn C., A. B., Biddle University.....	Roanoke, Va.
Fletcher, Thomas Augustus.....	Grenada, B. W. I.
Gloster, Harold Stuart.....	Wilkes-Barre, Pa.
Hall, Denham D.....	Bridgetown, Barbados, B. W. I.
Hamlett, Joseph.....	Barbados, B. W. I.
Hayden, Curtis T.....	Floyd, Va.
James, Herman H.....	Jamaica, B. W. I.
Johnson, Walker Allen.....	Anacostia, D. C.
Jones, Thomas E.....	Washington, D. C.
Josey, Thomas W.....	Augusta, Ga.
Key, George Bernard.....	Washington, D. C.
McSween, Edgarde J.....	Grenada, B. W. I.
Montgomery, William F., A. B., Atlanta University.....	Milledgeville, Ga.
Overton, George Norman.....	Barbados, B. W. I.
Pearl, Frank Adrian.....	Butte, Mont.
Rose, Bert Andrew.....	Mechanicsburg, Ohio.
Stanfield, Augustus.....	Montclair, N. J.
Stuart, Julian G.....	Greenwood, S. C.
Thomas, Joseph Henry.....	Buffalo, N. Y.
Thompson, Frank French, Ph. B., Syracuse University.....	Scottsville, N. Y.
Tyler, Wendell H.....	St. Louis, Mo.
Velasco, Edward E.....	New York City.
Vickers, Thomas R.....	Key West, Fla.
Williams, John J.....	Jamaica, B. W. I.
Williams, Reginald O.....	Jamaica, B. W. I.
Wilson, Rosko J.....	Florence, S. C.
Woodfin, Manfred P.....	Ironton, Ohio.

DENTAL COLLEGE.**Doctor of Dental Surgery—27.**

Archambeau, John Nicholas.....	Kingston, Jamaica.
Ballou, Edgar Sampson.....	Jacksonville, Fla.

Calloway, Samuel Dismond.....	Richmond, Va.
Cardwell, John Harrison, A. B., Biddle University....	Charlotte, N. C.
Coppage, Samuel Francis.....	Norfolk, Va.
DeHaven, Burrell Beard.....	Kirk, Ky.
Dickinson, Henry David.....	Cambridge, Mass.
Ferebee, Alexander Richard Webb.....	Philadelphia, Pa.
Graves, Antoine Jr.....	Atlanta, Ga.
Johnson, Albert Creighton.....	Chicago, Ill.
Jones, William Adolphus.....	Antigua, B. W. I.
King, Dudley Garnett.....	Barbados, B. W. I.
Kirton, Leonard St. Clair.....	Barbados, B. W. I.
McGill, Thomas William, Jr.....	Summerville, S. C.
McIntosh, Alexander H.....	New York, N. Y.
Moses, Jesse Daniel.....	San Antonio, Texas.
Richey, James Dudley, A. B., Biddle University.....	Greenville, S. C.
Sarjeant, Leonard Frede.....	Trinidad, B. W. I.
Sealy, Fitz Albert.....	Trinidad, B. W. I.
Swayne, Russell Metcalf.....	Springfield, Ohio.
Taborn, Edward Hall.....	Havana, Cuba.
Tribbitt, Robert Milton.....	Denton, Md.
Warren, Jesse Eugene, A. B., Fisk University.....	Tyler, Texas.
Weeks, Charles Hubert.....	Trinidad, B. W. I.
Whitfield, Walter Warren, Jr.....	Macon, Ga.
Whitted, William Hill, A. B., Shaw University.....	Winston-Salem, N. C.
Wilson, Joseph Daniel.....	Jamaica, B. W. I.
Wright, Wilbert Harry.....	Sioux Falls, S. D.

PHARMACEUTIC COLLEGE.

Doctor of Pharmacy—10.

Adams, Thomas John.....	Jacksonville, Fla.
Benjamin, Alice Pinyon.....	Washington, D. C.
Benjamin, George Henry.....	Washington, D. C.
Douglass, James Walter, Jr.....	Washington, D. C.
Jones, Lillian Ernestine.....	Memphis, Tenn.
Kerr, Thomas Henderson.....	Baltimore, Md.
Neely, Cicero.....	Winston-Salem, N. C.
Rohoblt, Walter Scott.....	Baltimore, Md.
Ross, Harry Cornelius.....	Washington, D. C.
Street, Kenneth Anthony.....	St. Louis, Mo.

THE SCHOOL OF MEDICINE

MEDICAL COLLEGE.

Seniors—55.

Allen, Herbert Augustus	Richmond, Va.
Ashburne, Lydia Eudora	Portsmouth, Va.
Bassette, Burl	Hampton, Va.
Blue, James T.	Georgetown, Demarara, B. G.
Burwell, Hartford R., A. B., Shaw University.....	Raleigh, N. C.
Butler, Leonard C., A. B., Lincoln University.....	Baltimore, Md.
Carr, Arthur D.	Athens, Ohio.
Carrington, J. Otis	Malden, Mass.
Curtis, Arthur Leo.....	Washington, D. C.
Daniel, Samuel Blake	Newberry, S. C.
Day, Thomas Edward	New York, N. Y.
Deane, Robert Armistead	Richmond, Va.
Downing, Lylburn C., A. B., Biddle University.....	Roanoke, Va.
Dyer, Joseph F.....	Washington, D. C.
Fletcher, Thomas Augustus	Grenada, B. W. I.
Gloster, Harold Stuart.....	Wilkes-Barre, Pa.
Greenlee, Percy J., B. S., A. & M. College.....	Asheville, N. C.
Hall, Denham D.....	Bridgetown, Barbados, B. W. I.
Hamlett, Joseph	Barbados, B. W. I.
Hayden, Curtis Thomas	Floyd, Va.
Hughes, John C.....	Washington, D. C.
Jackson, Walter Jordan.....	Augusta, Ga.
James, Herman H.....	Jamaica, B. W. I.
Johnson, Arthur E.....	Ansonia, Conn.
Johnson, Walker Allen	Anacostia, D. C.
Jones, Robert E., Jr.....	Richmond, Va.
Jones, Thomas E.....	Washington, D. C.
Josey, Thomas W.....	Augusta, Ga.
Key, George Bernard	Washington, D. C.
Lewis, William E.....	Washington, D. C.
McSween, Edgarde J.....	Grenada, B. W. I.
Mason, Dean Otis	Cadiz, Ohio.
Montague, William Henry	Hague, Va.
Montgomery, William Frank, A. B., Atlanta Univ....	Milledgeville, Ga.
Moore, Joseph G.....	Sedalia, Mo.
Morris, Horace	Louisville, Ky.
Overton, George Norman	Barbados, B. W. I.
Pearl, Frank Adrian	Butte, Mont.
Polk, John Knox	Versailles, Ky.
Rose, Bert Andrew.....	Mechanicsburg, Ohio.
Snow, Joseph Henry	Providence, R. I.
Stanfield, Augustus	Montclair, N. J.

Stuart, Julian Godfrey	Greenwood, S. C.
Sutherland, John Alexander	Mandeville, Jamaica, B. W. I.
Thomas, Joseph Henry	Buffalo, N. Y.
Thompson, Frank F., Ph. B., Syracuse University....	Scottsville, N. Y.
Tyler, Wendell Holmes	St. Louis, Mo.
Velasco, Edward Everett	New York, N. Y.
Vickers, Thomas Rudolph	Key West, Fla.
Walker, George Theophilus	Kingston, Jamaica, B. W. I.
Whitby, Ferdinand Demander, A. B., Howard Univ....	Galliard, Texas.
Williams, John J.	Buff Bay, Jamaica, B. W. I.
Williams, Reginald Osterly	Oak Bay, Jamaica, B. W. I.
Wilson, Rosko J.	Ironton, Ohio.
Woodfin, Manfred Plouding	Ironton, Ohio.

Juniors—52.

Arthurs, Samuel James	Buff Bay, Jamaica, B. W. I.
Asberry, Milton Thomas	Yoakum, Texas.
Bell, Perry Marshall	Lexington, Ky.
Bowser, Elmer E., A. B., Lincoln Univ.	Havre de Grace, Md.
Brown, John Harris	Wilmington, N. C.
Brown, William H.	Meyersdale, Pa.
Cargill, William Harrison	Baltimore, Md.
Carmicheal, Claude P.	Edna, Texas.
Coleman, Alexander B., Phar. D., Howard Univ....	Washington, D. C.
Cox, George H., Phar. D., Howard Univ.	Washington, D. C.
Dottin, Martin Luther	Barbados, B. W. I.
Durrah, Fred Falls	Clifton, S. C.
Flagg, Charles Herman	Washington, D. C.
Gibbons, Louis Sidney	St. Michael, B. W. I.
Gibson, George Alexander	Winston-Salem, N. C.
Gray, Edward Benjamin	Washington, D. C.
Gray, Hugh Matthias	Arlington, Va.
Gross, Carl Russell	Providence, R. I.
Hall, George Logan	Portsmouth, Va.
Harris, Charles O., Jr.	Montgomery, Ala.
Hayes, James M.	Union Level, Va.
Houston, Ulysses L.	Washington, D. C.
Jackson, Julian	Richmond, Va.
Janifer, Clarence S.	Newark, N. J.
Johnson, Douglas B.	Petersburg, Va.
Johnson, George Alexander	Washington, D. C.
Johnson, Louis A.	Towson, Md.
Lathers, Christopher C., A. B., LL. M., Howard Univ.	Dyersburg, Tenn.
Lee, Nathaniel Hawthorne	Greensboro, N. C.
Lynch, Harry C.	Washington, D. C.
McClain, Richard Pollard	Cincinnati, Ohio.
Mitchell, Evelyn G., A. B., Cornell, M. S., Geo. Wash.	E. Orange, N. J.
Murray, Harvey Allen	Wilmington, Del.
O'Flaherty, Nathan	Nevis, B. W. I.
Olden, Perry Alexander	Greenville, Tenn.
Oliver, Hudson Jones, Jr.	Jersey City, N. J.

Opey, William Gerfield	Washington, D. C.
Perry, Olden Oliver	Tuskegee, Ala.
Robinson, John H., Jr.	Hampton, Va.
Sankar, Andrew L.	Prince Town, B. W. I.
Schlaughter, Frederick M.	Rock Island, Ill.
Shelton, Joseph L.	Washington, D. C.
Strawn, Estel Young	Columbia, Mo.
Toney, Marcellus Edward	Baltimore, Md.
Watkins, John Francis	Philadelphia, Pa.
Watson, Byron A.	Washington, D. C.
Watson, Edwin Joshua	Antigua, B. W. I.
Wharton, Ulysses Samuel	Averett, Va.
White, George W.	Richmond, Va.
White, Vernon E.	Washington, D. C.
Wiggins, Dallas Brownson	Andersonville, Ga.
Williams, Leon James	Barbados, B. W. I.

Sophomores—28.

Brock, Howard F.	West Chester, Pa.
Brown, Lawrence Greeley	Hyman, S. C.
Buckner, Roscoe W. H.	Charlottesville, Va.
Burke, Stephen E.	Orange, N. J.
Carroll, John Ulysses	Bracey, Va.
Curtis, Austin M., Jr.	Washington, D. C.
Davidson, Richard Herbert	Jamaica, B. W. I.
Easter, Rafe Arnett	Waco, Texas.
Gordon, Frank A.	Williston, N. D.
Green, William I.	Monroe, La.
Love, William Albert, A. B., Howard Univ.	Baltimore, Md.
Lucas, Marie Burnadette (Mrs.)	Washington, D. C.
McKinney, Arthur Bancroft	Washington, D. C.
Mack, William C., A. B., Biddle Univ.	Columbia, Tenn.
Mason, Ira Mack, B. S., Yale Univ.	Birmingham, Ala.
Murray, Peter Marshall, A. B., New Orleans Univ.	New Orleans, La.
Powell, Robert Joshua, A. B., Lincoln Univ.	Newton, Pa.
Rhinehart, Harvey H., A. B., Philander Smith Col.	Stephens, Ark.
Riley, Joseph H. H.	Kansas City, Mo.
Roane, Edward S.	Brooklyn, N. Y.
Tancil, Richard F., Jr.	Richmond, Va.
Terrell, John H., A. B., Lincoln Univ.	Coco, Fla.
Wilkerson, Lawrence R.	Lynchburg, Va.
Williams, Albert.	Parnassus, Pa.
Williams, John C.	Memphis, Tenn.
Williams, John D., B. S., Union Univ.	Manassas, Va.
Wilson, Isam E., A. B., Biddle Univ.	Macon, Ga.
Yoakley, William B., A. B., Wilmington College.	Wilmington, Ohio.

Freshmen—35.

Alleyne, Albert Allen	Port of Spain, Trinidad.
Beaton, William	Friendship Village, B. G.

Bennett, Isaiah Samuel, A. B., Allen University.....	Charleston, S. C.
Brown, Thomas Clifton	Baltimore, Md.
Carter, Peter Jacob	Franktown, Va.
Case, John Whitman Turner	Georgetown, British Guiana.
Clinton, John Jacob.....	Lancaster, S. C.
Crawford, Martin Luther, A. B., Howard University..	Jacksonville Fla.
Dixon, David Johnson, A. B., Benedict College.....	Barnwell, S. C.
Flowers, John Azerre, A. B., Fisk University.....	Mt. Adams, Ark.
Fraser, John E.....	Demarara, British Guiana.
Garvin, Charles Herbert, A. B., Howard University...	Jacksonville, Fla.
Gibson, Levi Alexander, A. B., Livingstone College..	China Grove, N. C.
Gordon, Robert Keith	Darlington, S. C.
Hargrave, Zoel S., A. B., Biddle University.....	Charlotte, N. C.
Harris, Norman W.....	Norfolk, Va.
Holdbrooks, Alonzo Albert, A. B., Livingstone College	China Grove, N. C.
Holt, John Walker, A. B., Livingstone College.....	Asheville, N. C.
Humbert, Charles Robert	Darlington, S. C.
Lee, Edwin Henry, B. S., Columbia University.....	Tuskegee, Ala.
McCloud, William, A. B., Lincoln University.....	Fort Laron, S. C.
McKelvie, Julius Caesar, A. B., Howard University.....	Augusta, Ga.
McMorris, John H., A. B., Howard University.....	Macon, Miss.
McRae, Jay Garland, B. S., Biddle University.....	Carthage, N. C.
Martin, Isaiah Herbert, B. S., Fisk University.....	Decatur, Ala.
Morgan, Frederick C.....	Bridgetown, B. W. I.
Parker, James Wesley, A. B., Howard University....	Jacksonville, Fla.
Pigott, Caysa Napoleon	Baltimore, Md.
Plummer, Frank Victor	Hvattsville, Md.
Robinson, Ernest Augustus, A. B., Livingstone College..	Pee Dee, N. C.
Starks, Samuel Lumpkin, A. B., Paine College.....	Lisbon, Ga.
Williams, John Alphonso	New York, N. Y.
Worth, Charles Wesley, A. B., Shaw University.....	Raleigh, N. C.
Yard, James Christopher	Bronxville, N. Y.
Young, Claudius Junius, A. B., Bennett College...	Sherrills Ford, N. C.

Special Students—4.

Landin, Arnold H.....	Wayside, N. J.
Lanon, Charles A.....	S. Brownville, Pa.
Vaughan, James M.....	Plainfield, N. J.
Wiggins, Elmore C.....	St. Louis, Mo.

POST GRADUATES POLYCLINIC SURGERY.

C. H. Wilson, M. D.....	Montgomery, Ala.
H. J. Wilson, M. D.	Cordele, Ga.

GYNECOLOGY.

Wm. A. Browne, M. D.....	Augusta, Ga.
Roscoe C. Harrison, M. D.	Kimball, W. Va.
Eugene W. Lomax, M. D.....	Bluefield, W. Va.
C. H. Wilson, M. D.....	Montgomery, Ala.
H. J. Wilson, M. D.	Cordele, Ga.

DENTAL COLLEGE.

Seniors—34.

Anderson, John H.....	Boston, Mass.
Archambeau, John Nicholas	Kingston, Jamaica, B. W. I.
Ballou, Edgar S.....	Jacksonville, Fla.
Calloway, Samuel Desmond	Richmond, Va.
Cardwell, John Harrison, A. B., Biddle University.....	Charlotte, N. C.
Coppage, Samuel Francis	Norfolk, Va.
DeHaven, Burrell Beard	Frankfort, Ky.
Dickenson, Henry D.....	Jamaica, B. W. I.
Ferebee, Alexander Richard Webb.....	Philadelphia, Pa.
Graves, Antoine, Jr.....	Atlanta, Ga.
Johnson, Albert Creighton	Chicago, Ill.
Jones, William Adolphus	Antigua, B. W. I.
King, Dudley Garnett	Barbados, B. W. I.
Kyles, Alfred	St. Augustine, Fla.
Kirton, Leonard St. Clair	Barbados, B. W. I.
McGill, Thomas W., Jr.....	Summerville, S. C.
McIntosh, Alexander H. S.....	New York, N. Y.
Moses, Jesse Daniel	San Antonio, Texas.
Pink, Leonard Samuel Hyde	Jamaica, B. W. I.
Richey, James Dudley, A. B., Biddle Univ.....	Greenville, S. C.
Sargeant, Leonard Frede	Trinidad, B. W. I.
Sealy, Fitz Albert.....	Trinidad, B. W. I.
Smith, Jesse Ellsworth	Cadiz, Ohio.
Swayne, Russell M.....	Springfield, Ohio.
Taborn, Edward Hall.....	Havana, Cuba.
Tribbitt, Robert Milton	Denton, Md.
Vass, William, Jr.....	Portsmouth, Va.
Walker, Jacob W. T.....	Jamaica, B. W. I.
Warren Jesse Eugene, A. B., Fisk University.....	Tyler, Texas
Weeks, Charles Hubert	Trinidad, B. W. I.
Whitfield, Walter Warren, Jr.....	Macon, Ga.
Whitted, William Hill, A. B., Shaw Univ.....	Winston-Salem, N. C.
Wilson, Joseph Daniel	Jamaica, B. W. I.
Wright, Wilbert Harry	Sioux Falls, S. D.

Middle Year—34.

Bailey, Luther Clarence	Philadelphia, Pa.
Bell, Julius	St. Louis, Mo.
Carpenter, Albert M.....	Pittsburgh, Pa.

Carroll, Russell H.....	Anacostia, D. C.
Coleby, Albert E.....	Nassau, Bahama Islands.
Collins, Arthur J.....	Eastover, S. C.
Cowan, Cornelius S.A. B., Howard University.....	Wilmington, N. C.
Davis, Oscar E.....	Roanoke, Va.
Downing, Ellwood D., A. B., Biddle Univ.....	Roanoke, Va.
Evans, Elias G.....	Live Oak, Fla.
Evans, George G., A. B., Shaw Univ.....	Raleigh, N. C.
Ferguson, Charles F., Jr.....	Cape May City, N. J.
Givens, Everett H.....	Austin, Texas.
Hardy, Ernest Maurice	Washington, D. C.
Hudson, Henry C.....	Alexandria, La.
Jackson, John A.....	Petersburg, Va.
Johnson, Thomas Olin, Jr.....	Jersey City, N. J.
Jones, Charles A.....	Atlanta, Ga.
Jordon, Jack V.....	Little Rock, Ark.
King, Quincy B.....	Suffolk, Va.
Kyle, George Adam	Cincinnati, Ohio.
Lancaster, William L.....	Akron, Ohio.
McLeod, Fred Jeremiah, Jr.....	Dillon, S. C.
Mayer, Leon H.....	Washington, D. C.
Miller, Luther A.....	Mandeville, Jamaica, B. W. I.
Opey, Hiram Preston.....	Washington, D. C.
Pettis, Willis J.....	Farmville, Va.
Pulley, Robert F.....	Loraine, Ohio.
Vandavell, James M.....	Waco, Texas.
Vaughan, Julian F., Jr.....	Newark, N. J.
White, Henry C.....	Dallas, Texas.
White, William H.....	Columbus, Ga.
Williams, Herbert A.....	Jamaica, B. W. I.
Wilson, James N., A. B., Biddle Univ.....	Chattanooga, Tenn.

First Year—52.

Adams, Arthur Stewart	Elkhorn, W. Va.
Alexander, England T.....	Washington, D. C.
Blige, Samuel N. G.....	Tampa, Fla.
Brewer, John B.....	Norfolk, Va.
Brown, Emmett I.....	Zion, Ky.
Burleigh, Arthur V. M.....	Atlantic City, N. J.
Burnett, Junius Brutus	Paris, Texas.
Chisolm, William A	Brooklyn, N. Y.
Clark, Morton Avery	Bristol, Tenn.
Claytor, William Oat	Washington, D. C.
Comans, Nathaniel Hawthorne	Paris, Texas.
Cooper, Arthur Palmer	Wilmington, Del.
Cox, Everett Olin, A. B., Philander Smith College....	Little Rock, Ark.
Davenport, Lawrence John	Orange, N. J.
Day, Orlando Demetrius	St. Louis, Mo.
Dotson, Eddie Lee, B. S., Alcorn A. & M., College.....	Chicago, Ill.
Dowdell, Crawford Bertus	Americus, Ga.
Foster, Leo Joseph	Meridian, Miss.

Goggins, James Barlow	Cokesbury, S. C.
Gordon, Levi Preston Morton	Philadelphia, Pa.
Goss, William Thomas, A. B., Biddle University.....	Durham, N. C.
Grannum, Leslie Chetwynn'	Georgetown, B. G.
Greene, William J.....	Columbia, S. C.
Harper, Horatio Louis	Yoakum, Texas.
Harrison, Earl E.....	Charlotte, N. C.
Henriques, Luther T.....	Mandeville, Jamaica, B. W. I.
Hickman, Frank E.....	Washington, D. C.
Hinds, Charles Maxwell	Barbados, B. W. I.
Howell, Hugh Douglas	St. Louis, Mo.
Howell, Timothy Augustus	Vermont, Barbados, B. W. I.
Keller, Clarence Fred	Springfield, Ohio.
Lancaster, Lewis Jackson	Hannibal, Mo.
Layton, John Henry Turner, Jr.....	Washington, D. C.
Lennon, Macon Douglas	Boardman, N. C.
Lewis, Clarence Fleming	New York, N. Y.
Logan, William Miller, A. B., Biddle University.....	Concord, N. C.
McCollum, Lawrence	Bennettsville, S. C.
Moats, Henry Harrison	Franklin, W. Va.
Morrison, James Melville.....	Kingston, Jamaica, B. W. I.
Parks, Earl A.....	Savannah, Ga.
Potter, Joseph Henry	Wilmington, Del.
Richardson, Canute Wycliffe	Old Harbor, Jamaica, B. W. I.
Roy, Joseph Clabert	New Orleans, La.
Russell, Chester D.....	New York, N. Y.
Stanley, Josephus C., Jr.....	Winchester, Miss.
Taylor, Samuel Bartlett	Louisville, Ky.
Tucker, William Henry	Pittsburgh, Pa.
Weeden Henry Page	Hampton, Va.
Whitfield, Harry Melford	Washington, D. C.
Wilkins, Thomas Haywood	Greensboro, N. C.
Williams, Albert P. Jr., A. B., Lincoln University.....	Savannah, Ga.
Yancey, Clinton Ernest, A. B., Biddle University.....	Danville, Va.

PHARMACEUTIC COLLEGE.

Seniors—11.

Adams, Thomas John	Jacksonville, Fla.
Benjamin, Alice Pinyon (Mrs.).....	Washington, D. C.
Benjamin, George H.....	Washington, D. C.
Douglas, James Walton, Jr.....	Washington, D. C.
Howe, Alfred G.....	Wilmington, N. C.
Jones, Lillian Ernestine (Miss).....	Memphis, Tenn.
Kerr, Thomas Henderson	Baltimore, Md.
Neely, Cicero	Winston-Salem, N. C.
Rohoblt, Walter Scott	Baltimore, Md.
Ross, Harry Cornelius	Washington, D. C.
Street, Kenneth Anthony	St. Louis, Mo.

Middle Year—12.

Brown, Andrew Bennett	Norfolk, Va.
Cabaniss, Joseph D.	Falls Church, Va.
Chambers, John W.	Buckingham, Va.
Clair, Grafton E.	Washington, D. C.
Ewell, Mary Catharine (Miss)	Washington, D. C.
Gibbs, Margaret Elizabeth (Miss)	West Chester, Pa.
Jones, Christopher C.	Atlanta, Ga.
Mosby, George Thomas	Martinsburg, W. Va.
Pinkett, Roscoe D.	Washington, D. C.
Rattley, John E., Jr.	Washington, D. C.
Seymoure, Harry S.	Anacostia, D. C.
Shockley, Andrew C.	Baltimore, Md.

First Year—24.

Bridges, James E.	Galveston, Texas.
Carey, Theodore T.	Newark, N. J.
Davenport, George Richard	Norfolk, Va.
Davis, William Elwood	Washington, D. C.
Dixon, Edward Parker, Jr.	Alexandria, Va.
Dudley, Jesse Brenham	Dayton, Ohio.
Fonvielle, Joseph Earl, A. B., Livingstone College	Salisbury, N. C.
Gittens, Oscar M.	New York, N. Y.
Hardy, Henry Clay	Washington, D. C.
Heathman, Roscoe O.	Providence, R. I.
Jennings, William Oliver	Washington, D. C.
Lee, George Ernest	Tuskegee, Ala.
McCraw, Charles C.	Richmond, Va.
Marshall, Leland	Washington, D. C.
Paine, John Howard	Albany, Ga.
Quivers, Harold Levy	Washington, D. C.
Richardson, Joseph	Auburn, N. Y.
Robinson, Andrew A.	Toronto, Canada.
Robinson, William W.	Pawling, N. Y.
Sample, Alexander W.	Harrisburg, Pa.
Thrower, William Harrison	Macon, N. C.
Thompson, Julian Ross	Washington, D. C.
Webb, Gertrude I. Harper (Mrs.)	Chicago, Ill.
*Wright, Malvin Ira.	Bridgeport, Ohio.

*Deceased.

HOWARD UNIVERSITY.

SUMMARY.

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ALUMNI ASSOCIATION

President.

C. H. MARSHALL, M. D.

Vice-Presidents.

FIRST—ANDREW J. GWATHNEY, D. D. S.

SECOND—H. C. SCURLOCK, A. B., M. D.

THIRD—DANIEL SMITH, Phar. D.

Corresponding Secretary and Librarian.

CHARLES A. TIGNOR, M. D.

Recording Secretary.

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